CFD-W57L

SERVICE MANUAL

AEP Model
UK Model

Ver 1.2 2000. 07
With SUPPLEMENT-1
(9-923-385-81)

CD Section	Model Name Using Similar Mechanism	CFD-222L
	CD Loading Mechanism Type	KSL-213CGP
	CD Mechanism Type	KSM-213CGP
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-W57

SPECIFICATIONS

CD player section

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20,000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range

FM	UK, German model	87.6 - 107 MHz
	Italian model	87.5 - 108 MHz
	East European model	65 - 74 MHz 87.5 - 108 MHz
MW		531 - 1,602 kHz
LW		153 - 279 kHz

IF
FM: 10.7 MHz
MW/LW: 450 kHz
Aerials
FM: Telescopic aerial
MW/LW: Built-in ferrite bar aerial

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 120 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 70 - 12,500 Hz

General

Speaker
Full range: 8 cm (3 1/4 in.) dia.,
3.2 ohms, cone type (2)
Outputs
Headphones jack (stereo minijack)
For 16 - 64 ohms impedance headphones
Maximum power output
4.5 W + 4.5 W
Power requirements
For CD radio cassette-corder:
230 V AC, 50 Hz
12 V DC, 8 R20 (size D) batteries
For memory back-up:
6 V DC, 4 R6 (size AA) batteries
For remote control:
3 V DC, 2 R6 (size AA) batteries
Power consumption
AC 25 W

– Continued on next page –

CD RADIO CASSETTE-CORDER

MICROFILM

SONY®

Battery life

For CD radio cassette-corder:

FM recording
Sony R20P: approx. 4.5 h
Sony alkaline LR20: approx. 12 h
Tape playback
Sony R20P: approx. 2 h
Sony alkaline LR20: approx. 4.5 h
CD playback
Sony R20P: approx. 2 h
Sony alkaline LR20: approx. 4.5 h

Dimensions

Approx. 444 × 180 × 256 mm (w/h/d)
(17 1/2 × 7 1/8 × 10 1/8 inches) (incl. projecting parts)

Mass

Approx. 7.0 kg (15 lb. 7 oz.) (incl. batteries)

Supplied accessories

AC power cord (1)
Remote control (RMT-CW57AD) (1)
(Except East European model)
Remote control (RMT-CW57A) (1)
(East European model)
Conversion plug adaptor (1) (UK)

Design and specifications are subject to change without notice.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the bottom exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

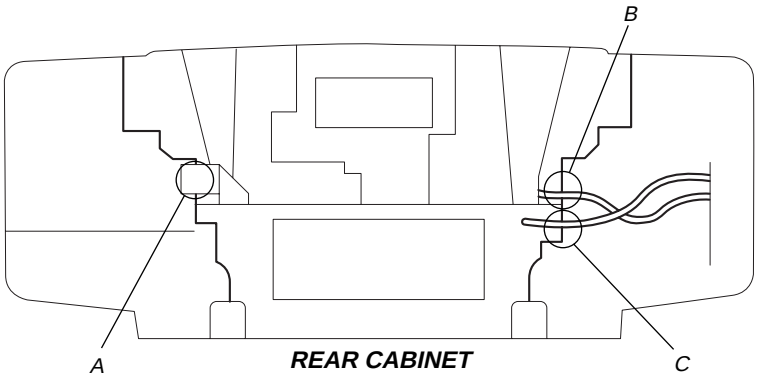
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

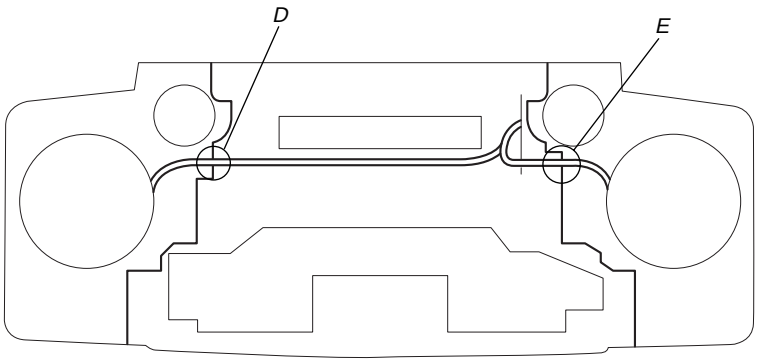
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON CABINETS ASSEMBLY

Put flat cable and wires between the cabinets and push them in the grooves located at A to E in the figure to prevent disconnection before assembling the set.



REAR CABINET



FRONT CABINET

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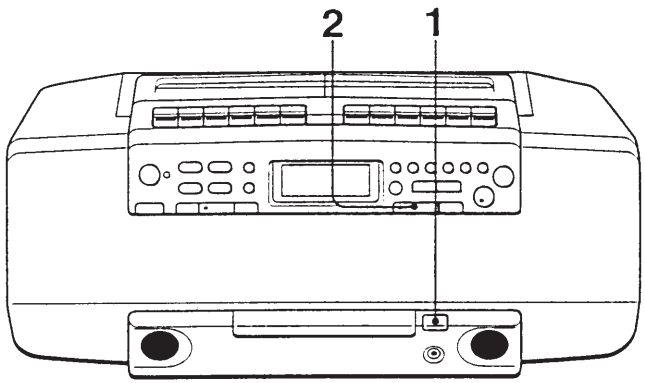
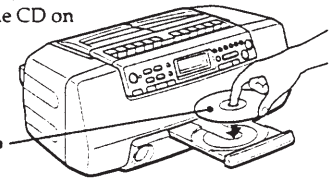
Playing a CD



Connect the supplied AC power cord (see page 25).

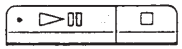
1

Press ⏏ OPEN/CLOSE (direct power-on) and place the CD on the CD tray.



With the label side up

2



Press ▶II.

The CD tray closes and the player plays all the tracks once.

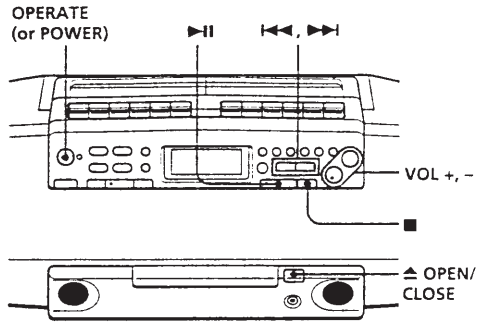
Display

Track number Playing time

Tip

Next time you want to listen to a CD, just press ▶II. The player turns on automatically and starts playing the CD.

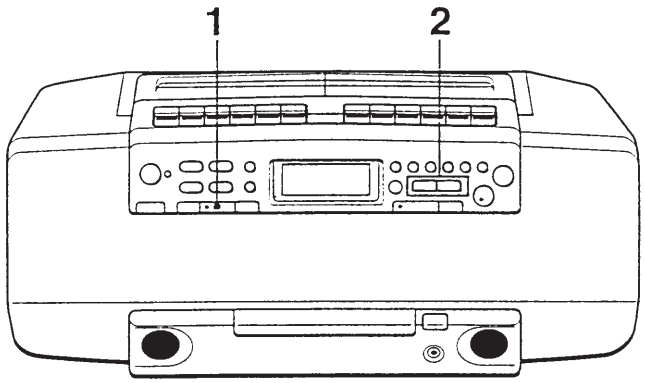
Use these buttons for additional operations



To	Press
adjust the volume	VOL +, –
stop playback	■
pause playback	▶II (II on the remote) Press the button again to resume play after pause.
go to the next track	▶▶I
go back to the previous track	I◀◀
remove the CD	⏏ OPEN/CLOSE
turn on/off the player	OPERATE (or POWER, see page 2)

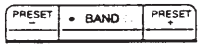
This section is extracted from instruction manual.

Listening to the radio



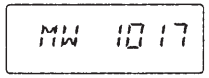
Connect the supplied AC power cord (see page 25).

1



Press BAND until the band you want appears in the display (direct power-on).

Display



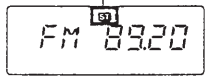
2

Hold down TUNING/TIME SET + or – (TUNE + or – on the remote) until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can't tune in a station, press the button repeatedly to change the frequency step by step.

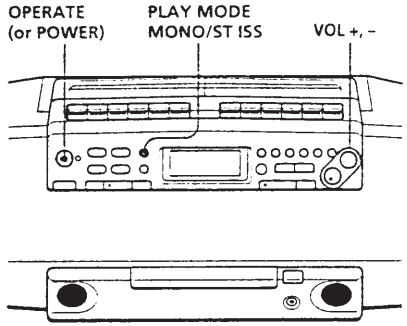
Indicates an FM stereo broadcast



Tips

- If the FM broadcast is noisy, press PLAY MODE•MONO/ST ISS until "Mono" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press BAND. The player turns on automatically and starts playing the previous station.
- *CFD-W57 only:*
  If you need to change the AM tuning interval (preset to 9 kHz at the factory), see page 26.

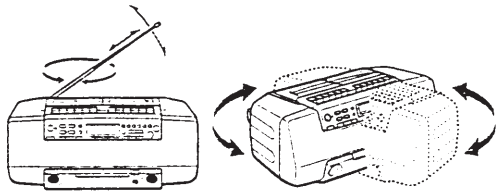
Use these buttons for additional operations



To	Press
adjust the volume	VOL +, –
turn on/off the radio	OPERATE (or POWER, see page 2)

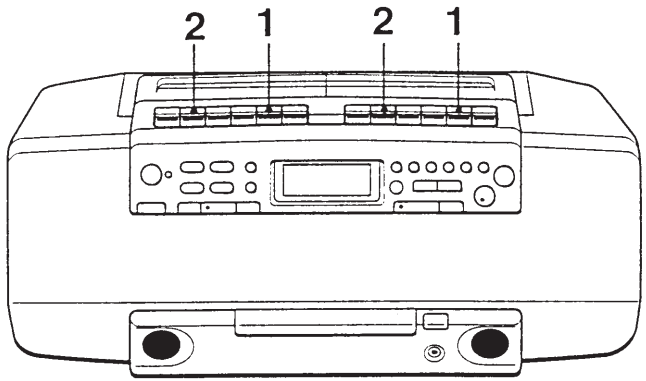
To improve broadcast reception

Reorient the antenna for FM. Reorient the player itself for AM or MW/LW.



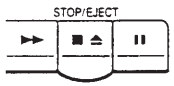
for FM　　for AM/MW/LW

Playing a tape



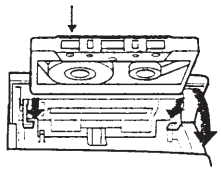
Connect the supplied AC power cord (see page 25).

1

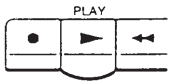


Press ■⏏ to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.

With the side you want to play facing upward



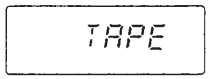
2



Press ►.

The player turns on (direct power-on) and starts playing.

Display



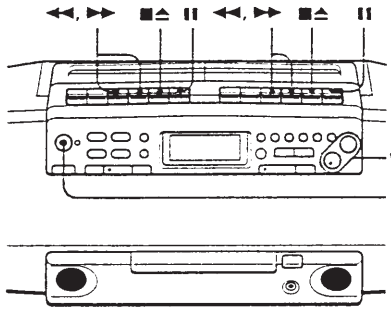
Note

During playback, do not press buttons on the other deck. Otherwise the playback speed may change.

Tip

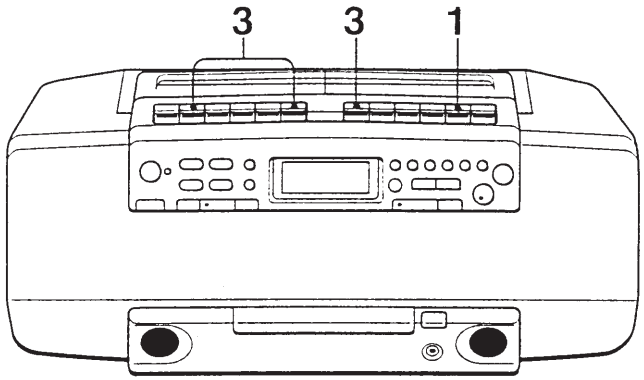
Next time you want to listen to a tape, just press ►. The player turns on automatically and starts playing the tape.

Use these buttons for additional operations



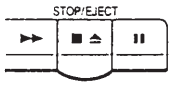
To	Press
adjust the volume	VOL +, –
stop playback	■⏏
fast-forward or rewind the tape	►► or ◄◄
pause playback	II Press the button again to resume play after pause.
eject the cassette	■⏏
turn on/off the player	OPERATE (or POWER, see page 2)

Recording on a tape



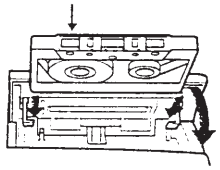
Connect the supplied AC power cord (see page 25).

1



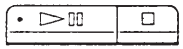
Press ■⏏ to open the tape compartment on deck B and insert a blank tape. Use TYPE I (normal) tape only.

With the side you want to record on facing upward

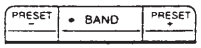


2

Select the program source you want to record.



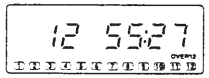
To record from the CD player, insert a CD (see page 4) and press ■ on the CD section.

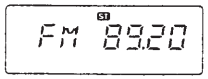


To record from the radio, press BAND and tune in the station you want (see page 6).

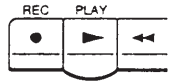
To record from the tape, insert a recorded tape into deck A (see page 8).

Display





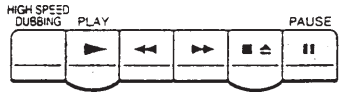
3 **Deck B**



Start recording.

To record from the CD player and the radio, press ● on deck B (► is depressed automatically).

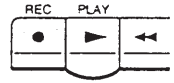
Deck A



To record from the tape, press ❚❚ and ► on deck A. (For high speed dubbing, press ❚❚ and HIGH SPEED DUBBING.)

Then press ● on deck B (► is depressed automatically).

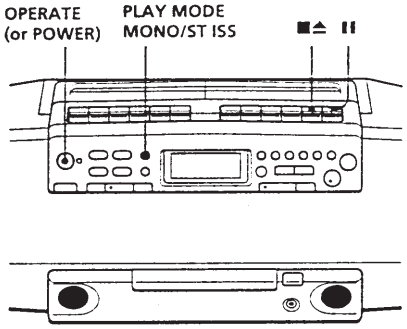
Deck B



Tips

- Adjusting the volume or the audio emphasis (see page 28) will not affect the recording level.
- If the AM or MW/LW program makes a whistling sound after you've pressed ● in step 3, press PLAY MODE• MONO/ST ISS (Interference Suppress switch) repeatedly until the noise is at a minimum.
- For the best results, use the AC power as a power source.
- To erase a recording, proceed as follows:
  1 Insert the tape whose recording you want to erase into deck B.
  2 Press ● on deck B.

Use these buttons for additional operations



To	Press
stop recording	■⏏ on deck B
pause recording	❚❚ on deck B Press the button again to resume recording.
turn on/off the player	OPERATE (or POWER, see page 2)

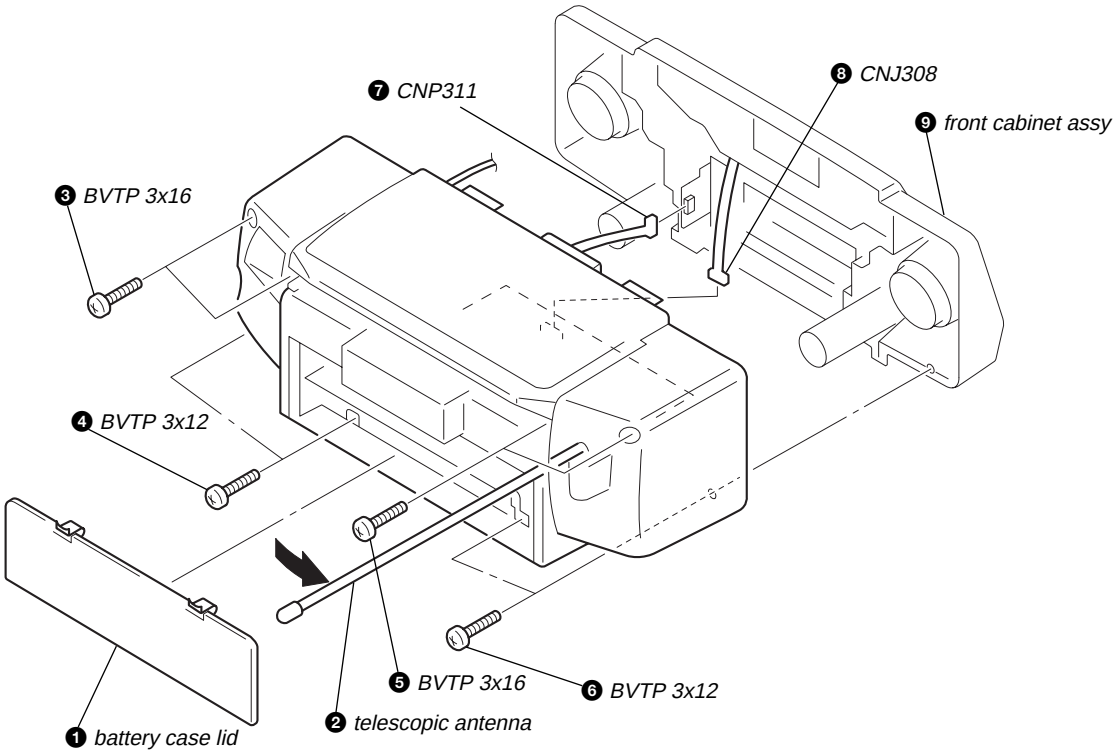
SECTION 2
DISASSEMBLY

• The equipment can be removed using the following procedure.

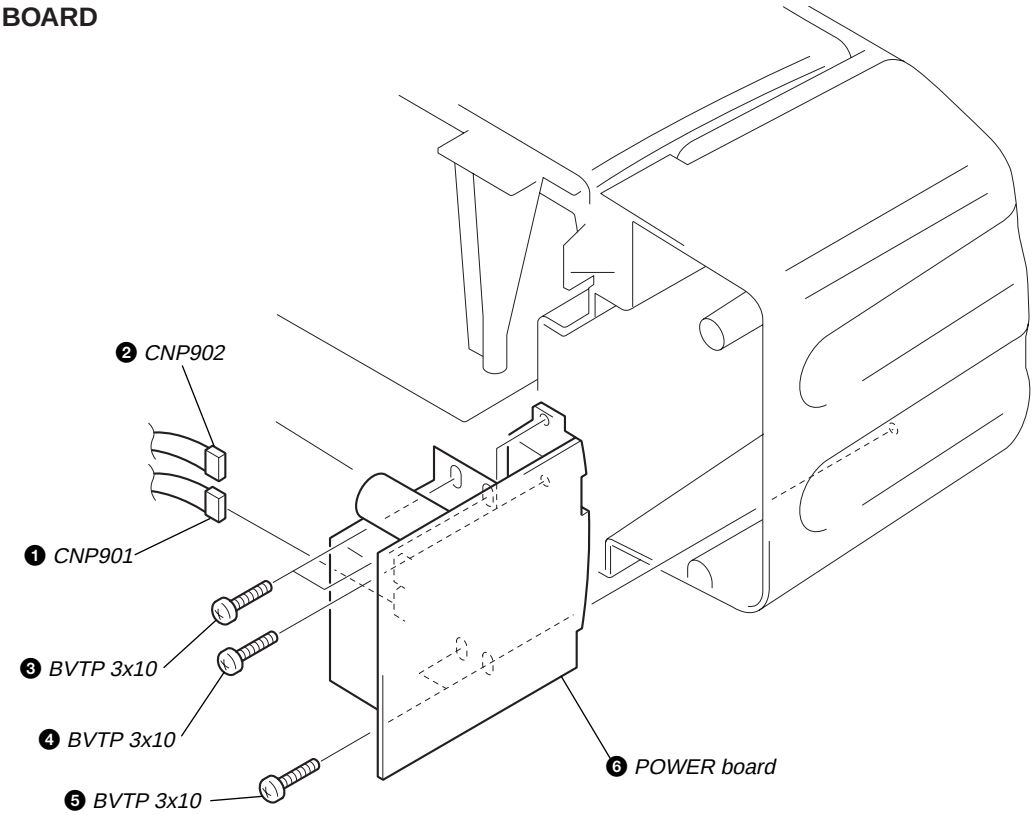
Set ➡ Front cabinet assy ➡ Power board
Tuner board
Upper cabinet assy ➡ CD mechanism block ➡ Holder (MG) assy ➡ Disc table ➡ Pulley (S) ➡ Holder (BU) assy
Main board ➡ Record/playback switch board ➡ Cassette mechanism block

Note : Follow the disassembly procedure in the numerical order given.

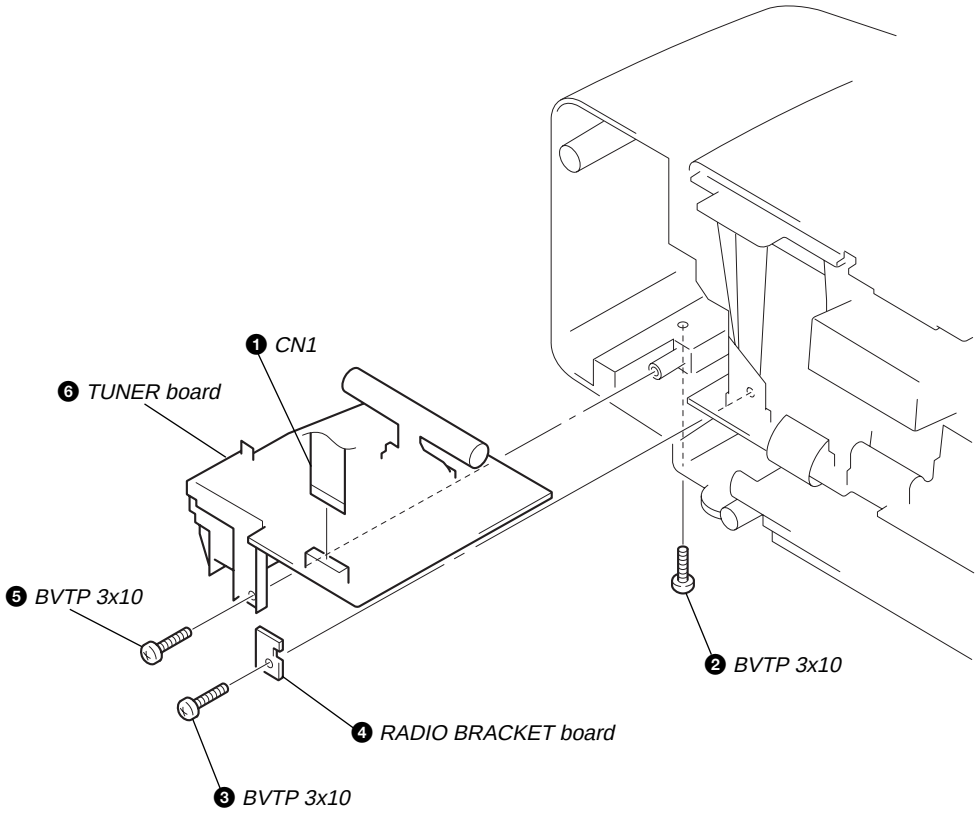
2-1. FRONT CABINET ASSY



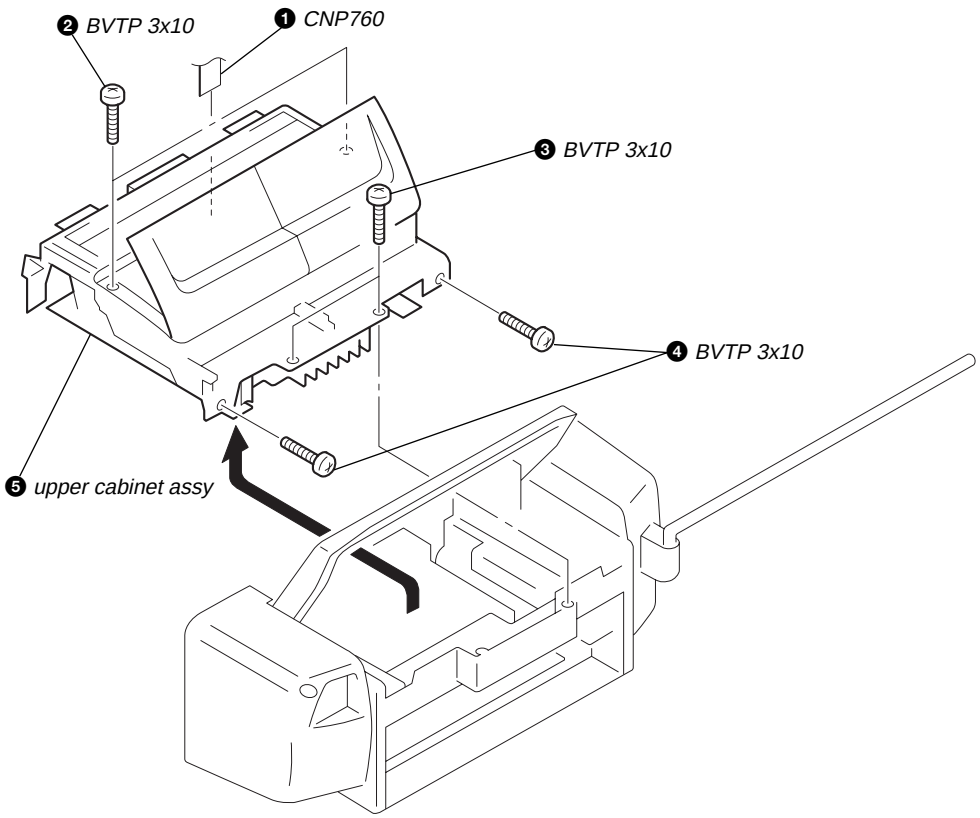
2-2. POWER BOARD



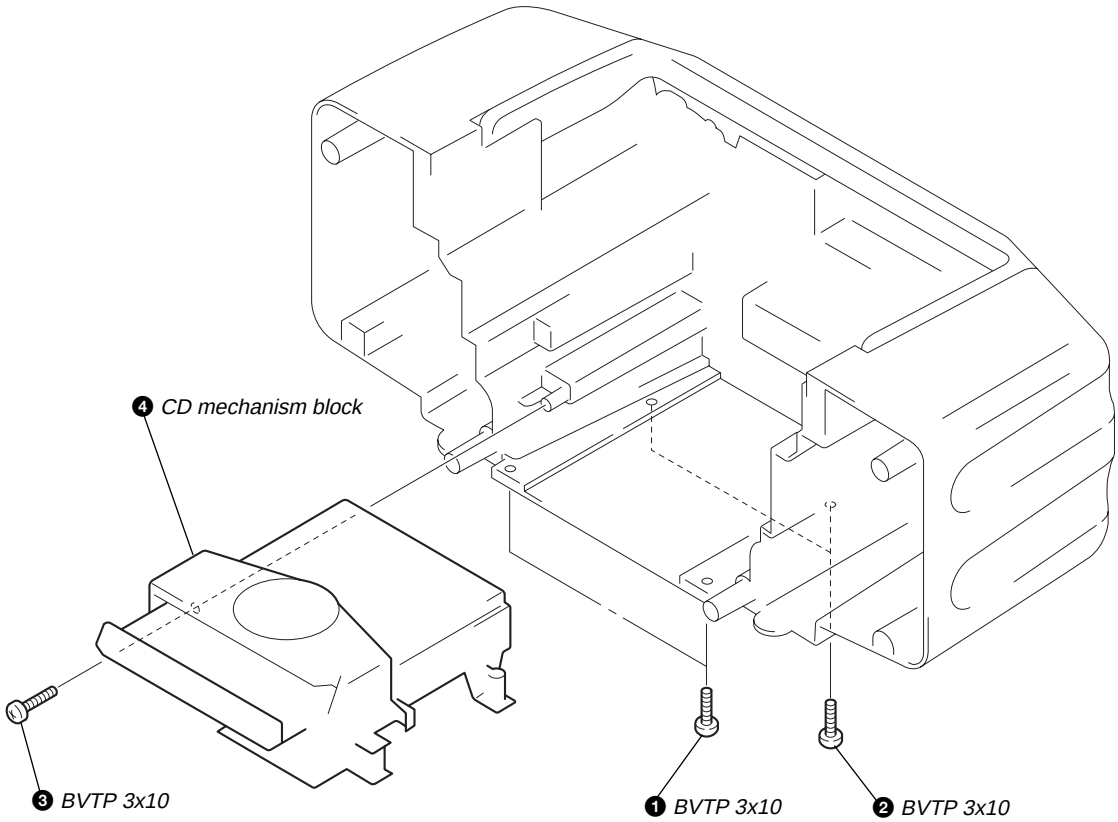
2-3. TUNER BOARD



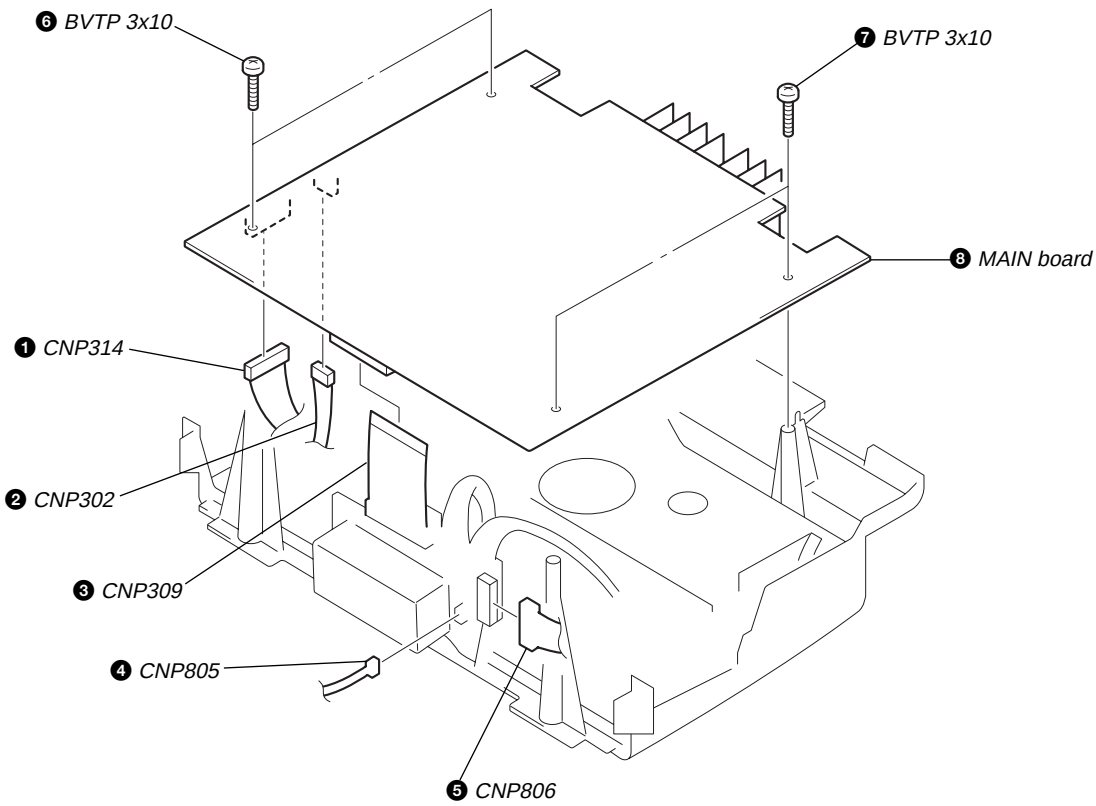
2-4. UPPER CABINET ASSY



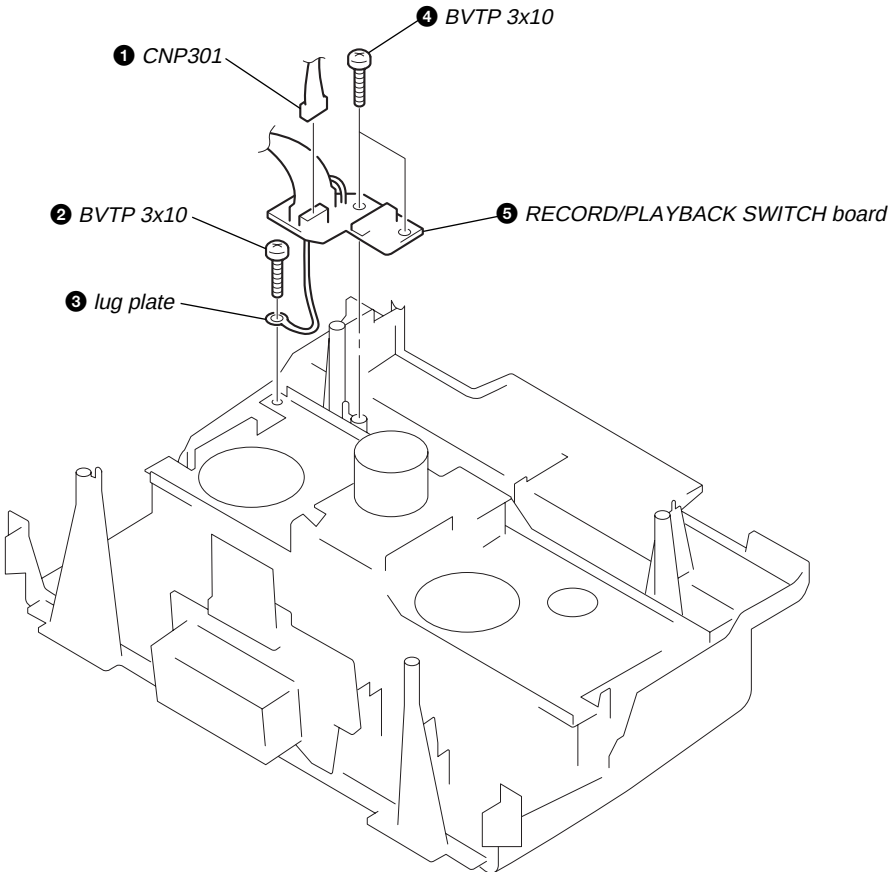
2-5. CD MECHANISM BLOCK



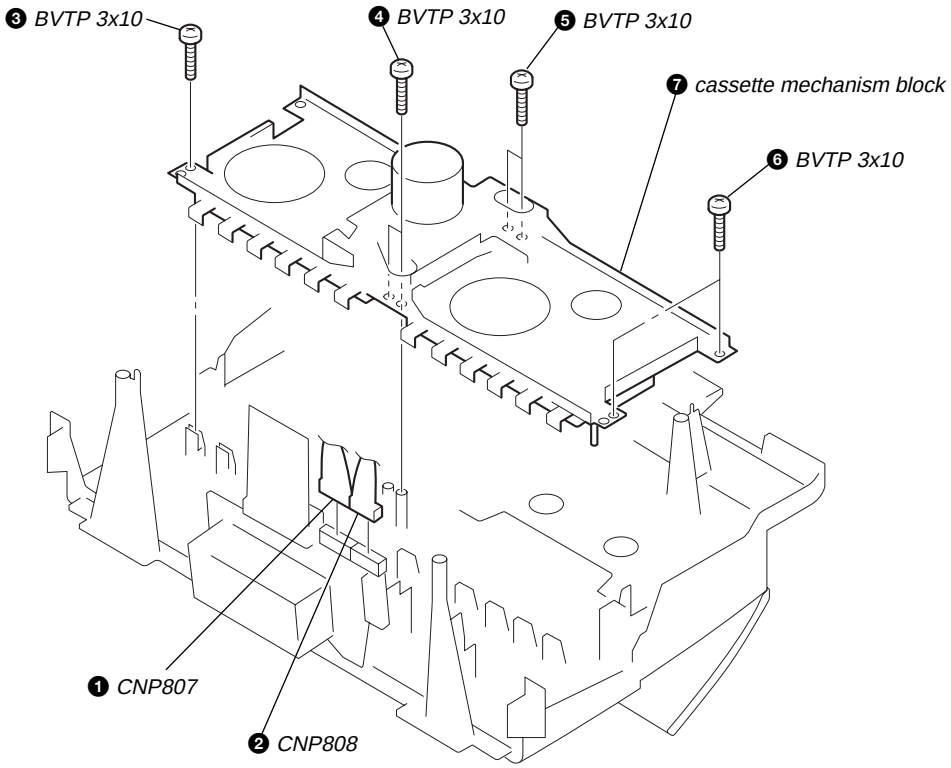
2-6. MAIN BOARD



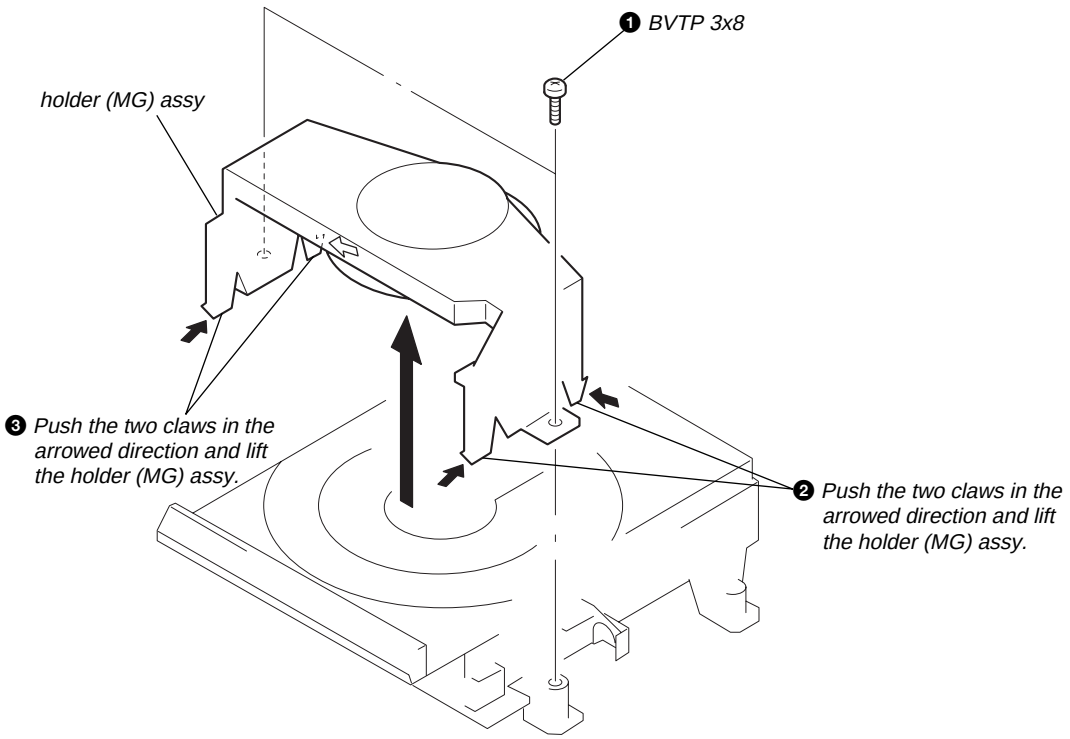
2-7. RECORD/PLAYBACK SWITCH BOARD



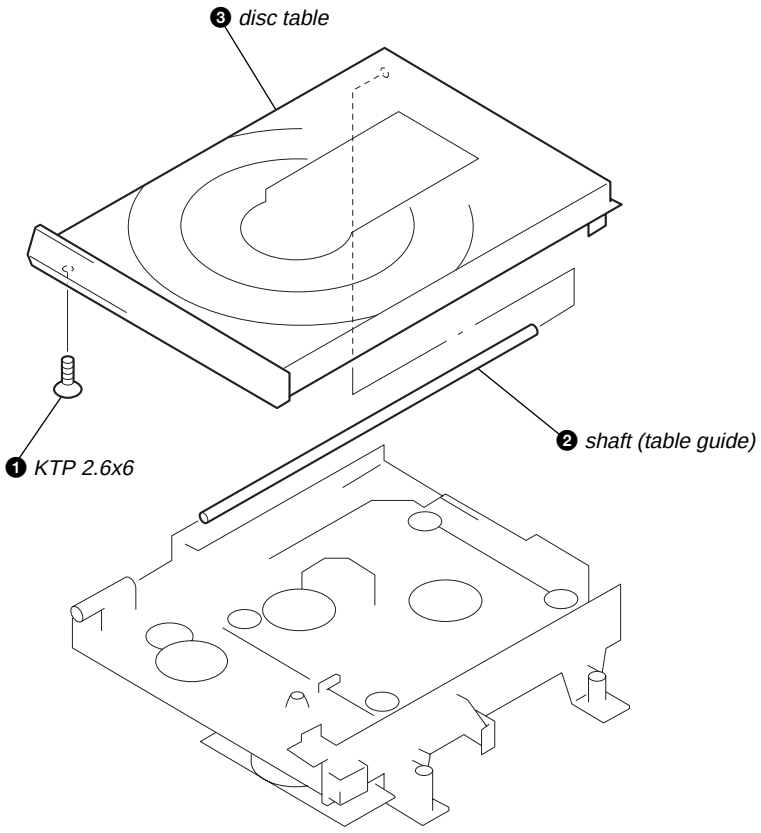
2-8. CASSETTE MECHANISM BLOCK



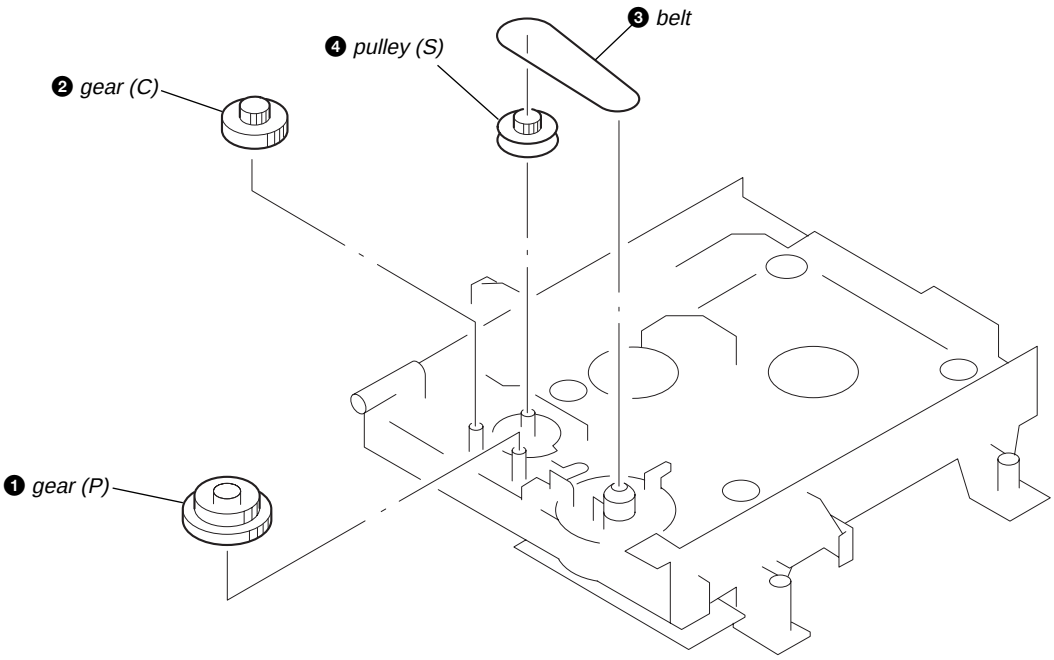
2-9. HOLDER (MG) ASSY


❶ BVTP 3x8
holder (MG) assy
❸ Push the two claws in the arrowed direction and lift the holder (MG) assy.
❷ Push the two claws in the arrowed direction and lift the holder (MG) assy.

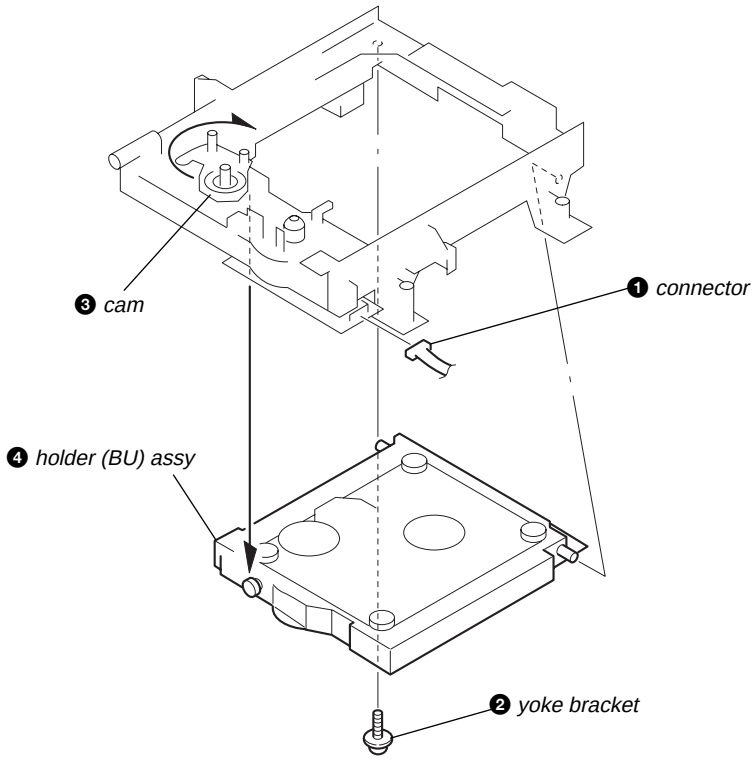
2-10. DISC TABLE



2-11. PULLEY (S)



2-12. HOLDER (BU) ASSY



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. Power supply voltage: 12 V dc.

Torque Measurement DECK A DECK B

Mode	Torque meter	Meter reading
Forward	CQ-102C	22.5 to 55 g • cm (0.31 to 0.76 oz • inch)
Forward back tension	CQ-102C	2 to 5 g • cm (0.03 to 0.07 oz • inch)
Fast Forward and Rewind	CQ-201B	60 to 120 g • cm (0.83 to 1.67 oz • inch)

Tape Tension Measurement DECK A DECK B

Mode	Tension meter	Meter reading
Forward	CQ-403A	more than 150 g (more than 5.29 oz)

SECTION 4
ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

Standard Input Level

Input terminal	MIX MIC
source impedance	300 Ω
input signal level	3.085 mV (–48 dB)

Standard Output Level

Output terminal	SP OUT	PHONES OUT
load impedance	6 Ω	32 Ω
output signal level	0.775 V (0 dB)	0.25 V (–10 dB)

Test Tape

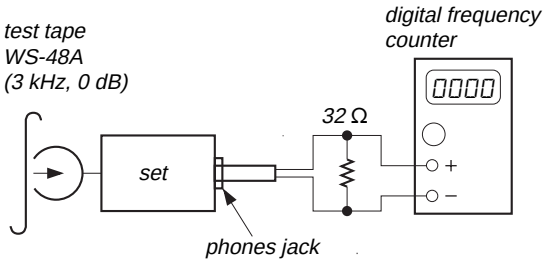
Tape	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment
P-4-A063	6.3 kHz, –10 dB	head azimuth adjustment

Tape Speed Adjustment DECK A

Procedure:

• Perform normal speed adjustment before high speed check.

Mode: playback (deck A)
record (deck B)

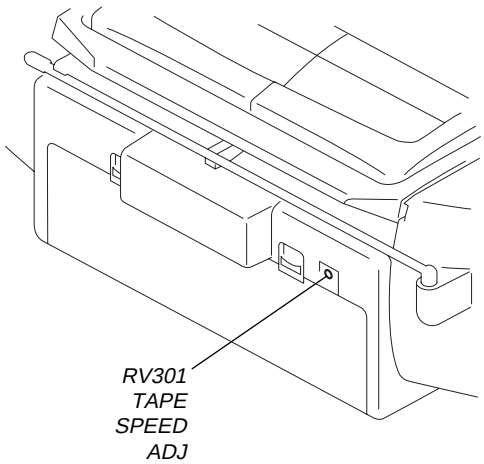


Deck	Tape speed	Adjustment point	Frequency counter
A	Normal (playback)	RV301	2,970 to 3,000 Hz
A	HI-SPEED DUBBING (playback)	(confirmation)	5,500 to 5,900 Hz
B	HI-SPEED DUBBING (record)	———	———

Frequency difference between the beginning and the end of the tape should be within ± 1.5% (both Normal and Hi-speed).

Adjustment Location:

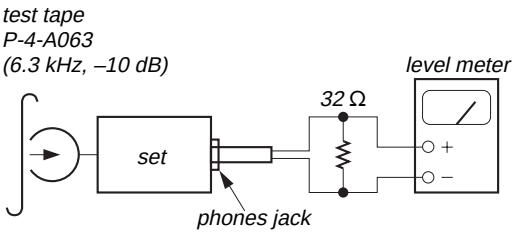
–set rear view–



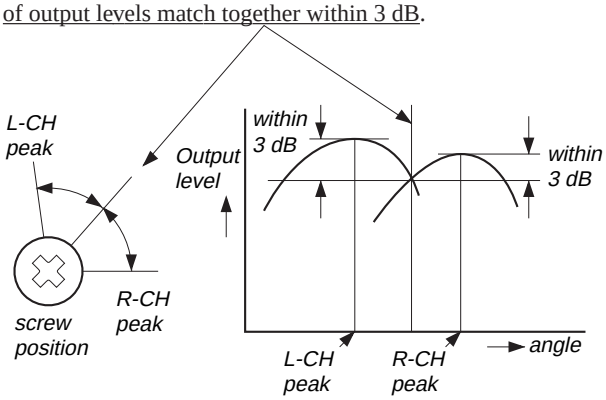
REC/PB Head Azimuth Adjustment DECK A DECK B

Procedure:

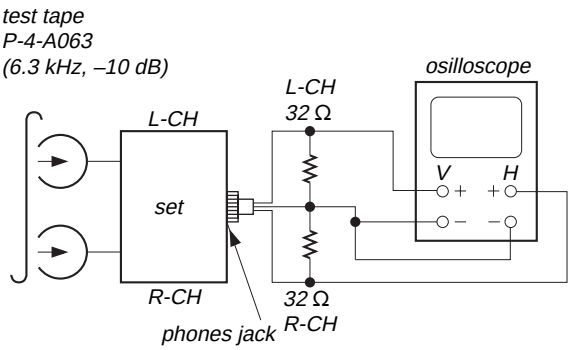
1. Mode: playback

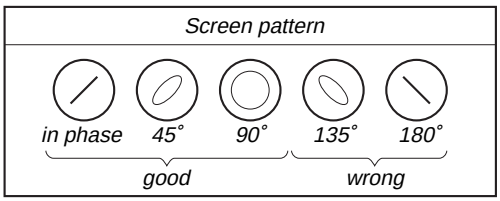


2. Turn the adjustment screw for the maximum output levels. If these levels do not match. Turn the adjustment screw until both of output levels match together within 3 dB.



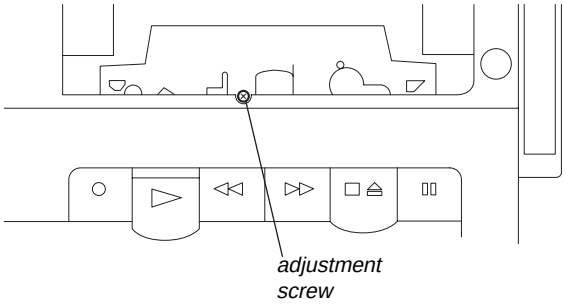
3. Phase Check
   Mode: playback





Note: Finish the screw adjustment with a turn in the clockwise direction.
After the adjustment, lock the adjustment screw.

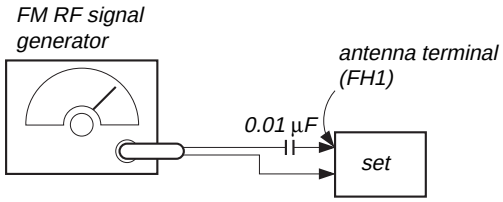
Adjustment Location: playback head (deck A)
record/playback head (deck B)



TUNER SECTION | 0 dB = 1 μV

- **FM Section**

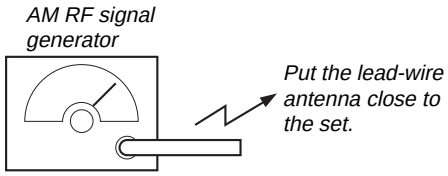
Setting:
BAND switch: FM



22.5 kHz frequency deviation by 400 Hz signal
Output level : as low as possible

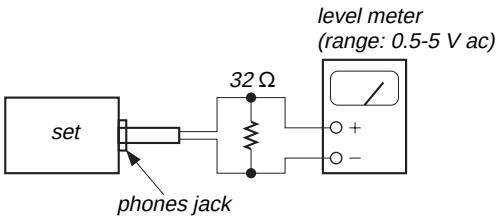
- **MW/LW Section**

Setting:
BAND switch: MW or LW

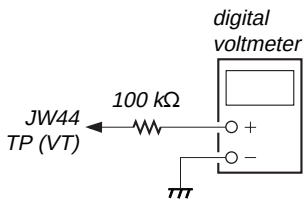


30% amplitude moudulation by 400 Hz signal
Output level : as low as possible

- **Connecting Level Meter (FM, MW and LW)**



- **Connecting Digital Voltmeter (FM, MW and LW)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz (65 MHz)	108 MHz
Reading on Digital voltmeter	1.4 ± 0.2 V	3.5 ± 0.1 V (7.3 ± 0.2 V)
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz (68 MHz)	108 MHz (102 MHz)

MW FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	0.9 ± 0.1 V	5.7 ± 0.1 V
Adjustment Part	L4	CT2

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-1	CT4
621 kHz	1,404 kHz

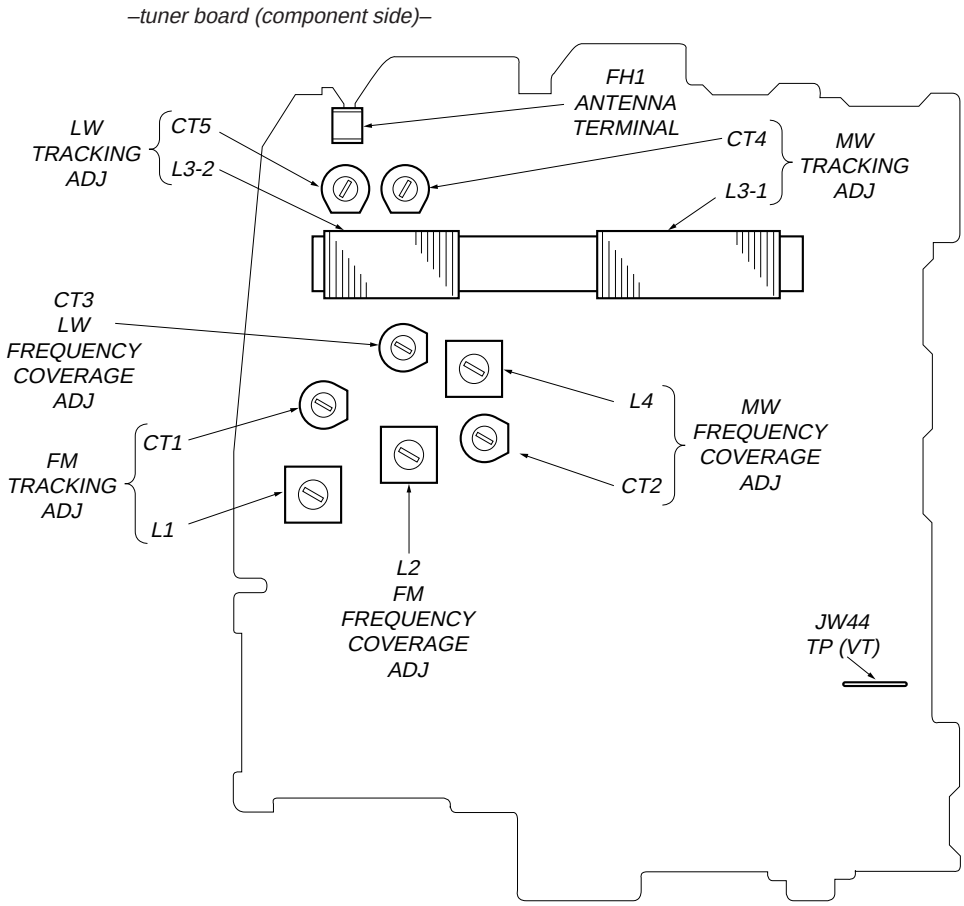
LW FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	153 kHz	279 kHz
Reading on Digital voltmeter	0.6 ± 0.15 V	5.7 ± 0.1 V
Adjustment Part	<confirmation>	CT3

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-2	CT5
162 kHz	261 kHz

( ) : East European model

Adjustment Location: See page 18.

Adjustment Location: tuner board



CD SECTION

CD section adjustments are done automatically in this set.

SECTION 5
DIAGRAMS

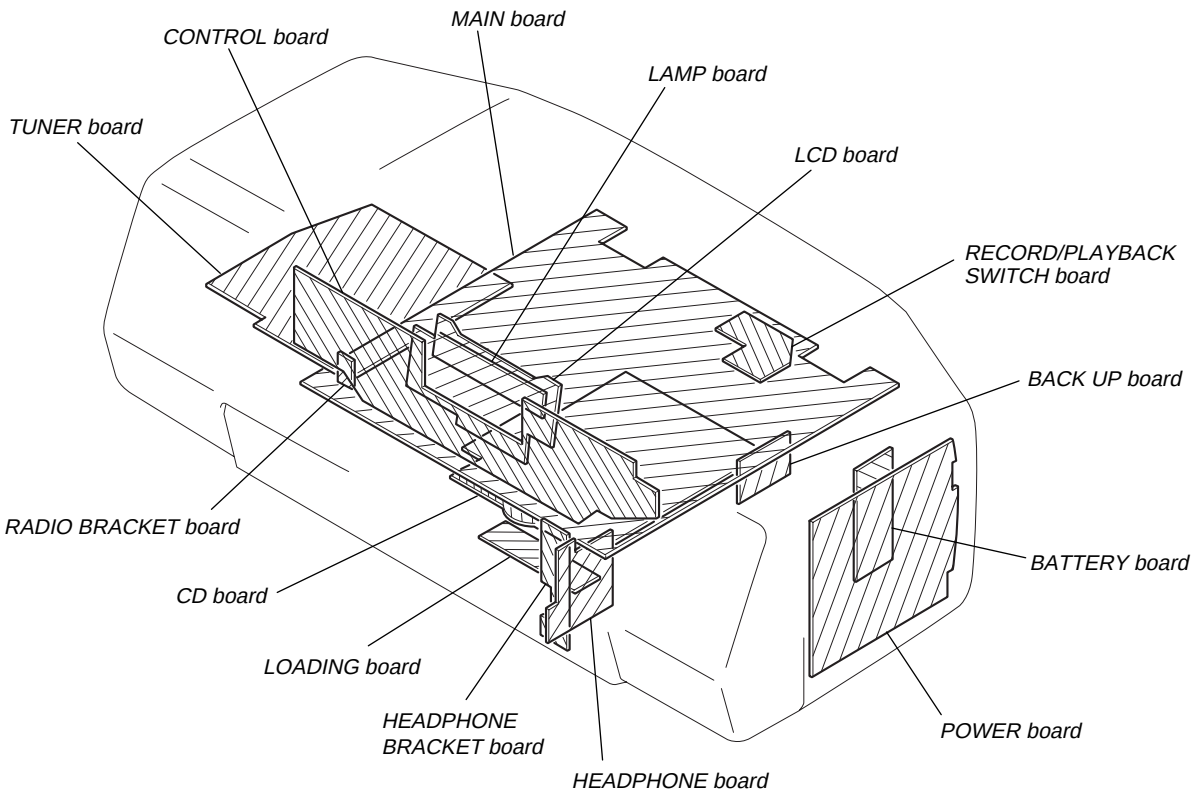
5-1. IC PIN DESCRIPTION

• IC801 CXP83120A-029Q (SYSTEM CONTROL)

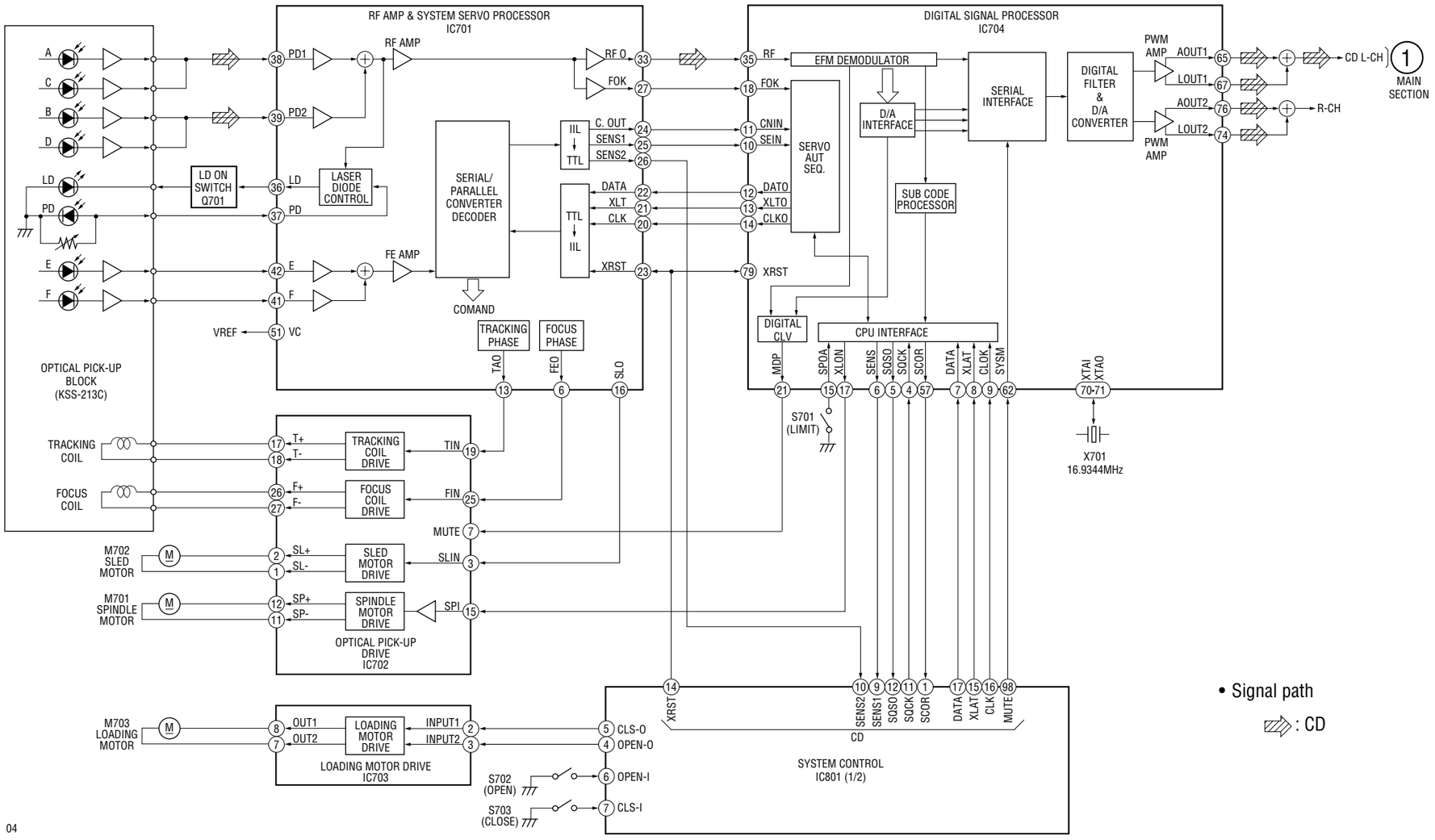
Pin No.	Pin Name	I/O	Pin Description
1	C-SCOR	I	CD SCOR input
2	W/UP	I	Wake-up input
3	RMC	I	Sircs receiver input
4	OPEN-O	O	CD loading motor control output (Eject direction)
5	CLS-O	O	CD loading motor control output (Loading direction)
6	OPEN-I	I	CD open switch input
7	CLS-I	I	CD close switch input
8	—	—	Not used.
9	C-SENS1	I	CD SENSE-1 input
10	C-SENS2	I	CD SENSE-2 input
11	C-SQCK	O	CD Sub-Q read clock output
12	C-SQSO	I	CD Sub-Q data input
13	—	—	Not used.
14	C-XRST	O	CD reset output
15	C-XLAT	O	CD serial latch output
16	C-CLK	O	CD serial clock output
17	C-DATA	O	CD serial data output
18	R-ST	O	Stereo ingicator output
19	R-DATA	O	Tuner PLL data output
20	R-CLK	O	Tuner PLL clock output
21	R-COUNT	I	Tuner PLL data input
22	R-CE	O	Tuner PLL chip enable output
23	P.CON	O	System power control output
24	V-DATA	O	Volume serial data output
25	V-CLOCK	O	Volume serial clock output
26	V-CE	O	Volume serial chip enable output
27	REG-CHK	I	Low voltage detection input
28	BL-CONT	O	Back light control output
29	REC	I	Tape record signal input
30	INI	O	Tuner select initial setting output
31	SET 9k/10k	I	Tuner band 9k/10k select input
32	VERSION	I	Tuner destination band select input
33 – 36	KEY-1 – 4	I	Key input
37	SFT-CLK	O	Shift clock output
38	RESET	I	System reset input
39	EXTAL1	I	Oscillation input (4.19 MHz)
40	XTAL1	O	Oscillation output (4.19 MHz)
41	VSS	—	GND
42	XTAL2	—	Not used.
43	EXTAL2	—	Not used (Conected to GND).
44	AVREF	I	A/D converter VREF input
45	AVSS	—	Analog GND
46	VL	O	LCD drive port ON/OFF output
47 – 49	VLC-3 – 1	O	LCD drive voltege terminal
50 – 53	COM0 – 3	O	LCD drive common output
54 – 76	SEG0 – 22	O	LCD drive segment output
77 – 80	—	—	Not used.
81, 82	NC	—	Not used.
83	ROCK-LED	O	Not used.
84	POP-LED	O	Not used.
85	LIVE-LED	O	Not used.

Pin No.	Pin Name	I/O	Pin Description
86	VOCAL-LED	O	Not used.
87, 88	NC	—	Not used.
89	VDD	—	Power supply pin (+5 V)
90	NC	—	Not used.
91	VSS	—	GND
92	TX	O	Oscillation output (32.768 kHz)
93	TXE	I	Oscillation input (32.768 kHz)
94	ISS1	O	Tape ISS1 control output
95	ISS2	O	Tape ISS2 control output
96	A-MUTE	O	Audio mute output
97	R-MUTE	O	Tuner mute output
98	C-MUTE	O	CD mute output
99	$\overline{\text{TC2}}$	I	Tape play switch input (Deck A)
10	$\overline{\text{TC1}}$	I	Tape play switch input (Deck B)

5-2. CIRCUIT BOARDS LOCATION



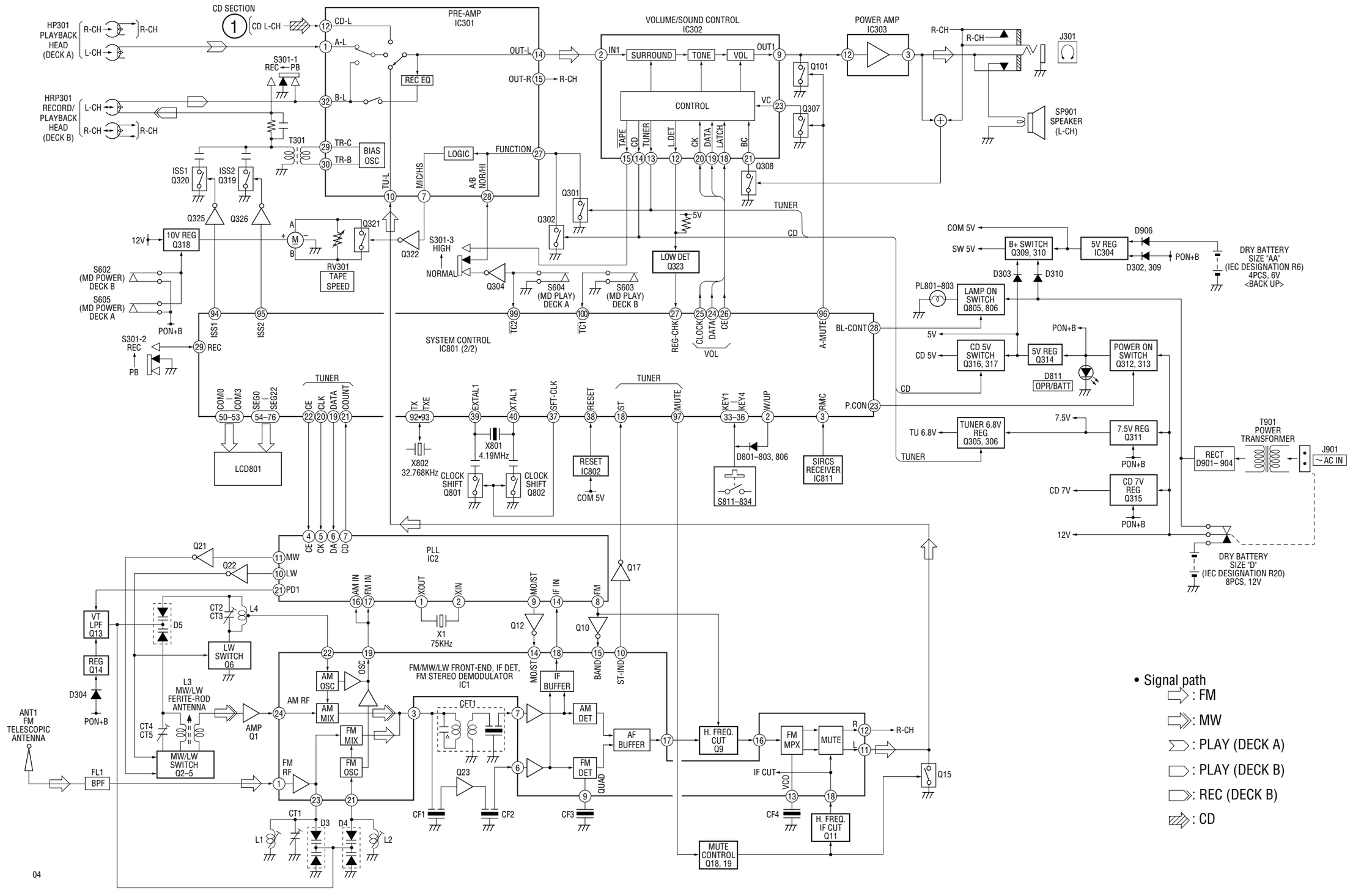
5-3. BLOCK DIAGRAM — CD SECTION —



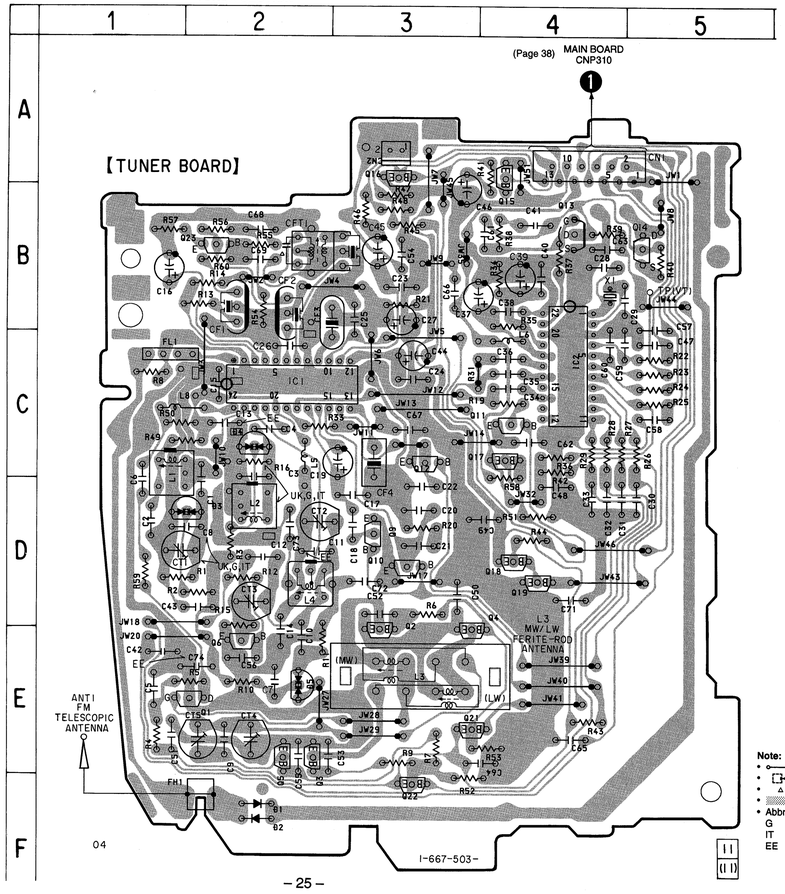
• Signal path

: CD

5-4. BLOCK DIAGRAM — MAIN SECTION —



5-5. PRINTED WIRING BOARD — TUNER SECTION —

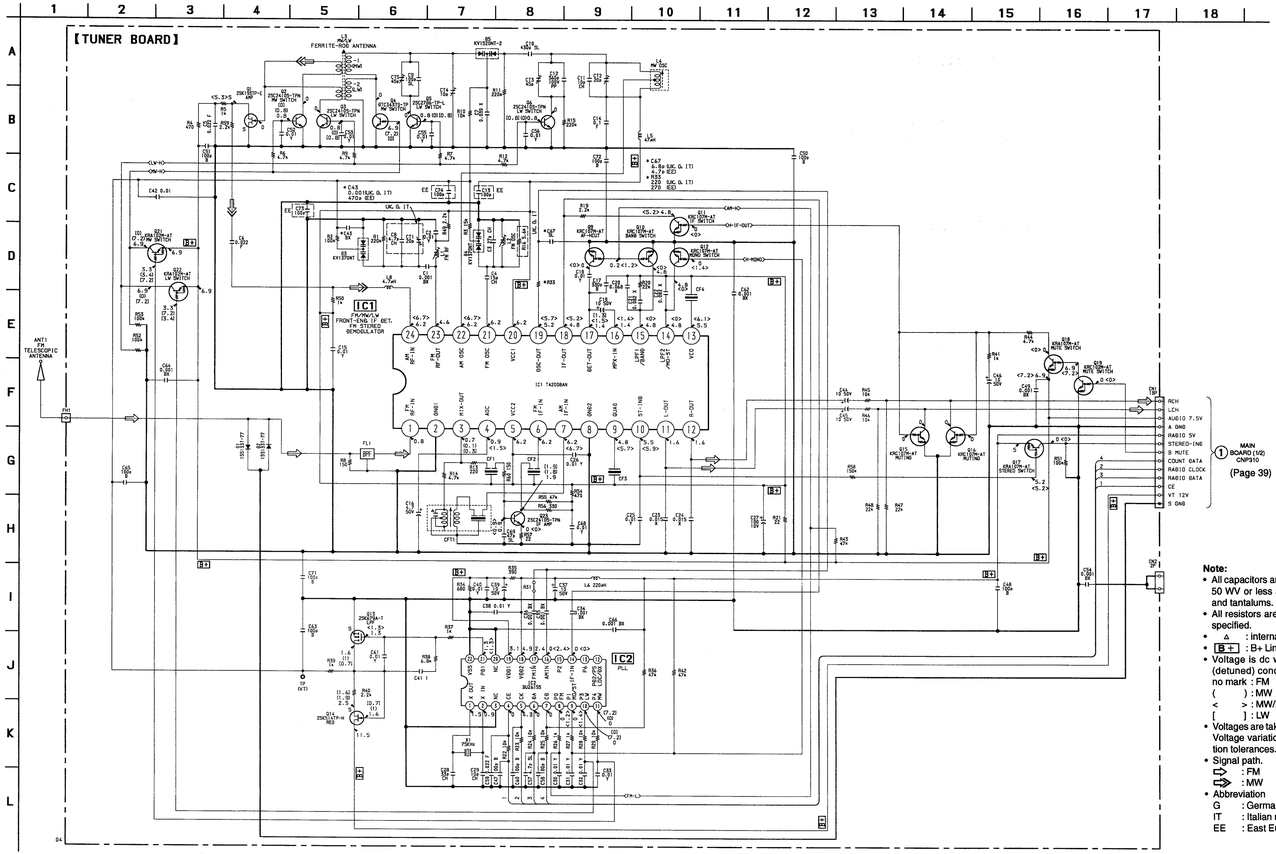


• **Semiconductor Location**

Ref. No.	Location
D1	F-2
D2	F-2
D3	D-2
D4	C-2
D5	E-2
IC1	C-2
IC2	C-4
Q1	E-2
Q2	D-3
Q3	E-2
Q4	D-4
Q5	E-2
Q6	E-2
Q9	D-3
Q10	D-3
Q11	C-3
Q12	C-3
Q13	B-4
Q14	B-5
Q15	B-4
Q16	A-3
Q17	C-3
Q18	D-4
Q19	D-4
Q21	E-3
Q22	F-3
Q23	B-2

Note:
- ⟐—: parts extracted from the component side.
- ⊏⊐: indicates side identified with part number.
- △: internal component.
- ▨: Pattern from the side which enables seeing.
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

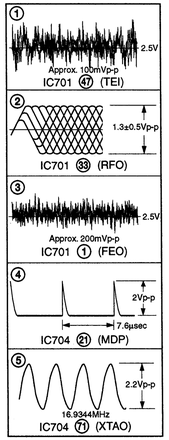
5-6. SCHEMATIC DIAGRAM — TUNER SECTION — • Refer to page 49 for IC Block Diagrams.



Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : MW/LW
  [ ] : LW
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : MW
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

5-7. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 50 for IC Block Diagrams.

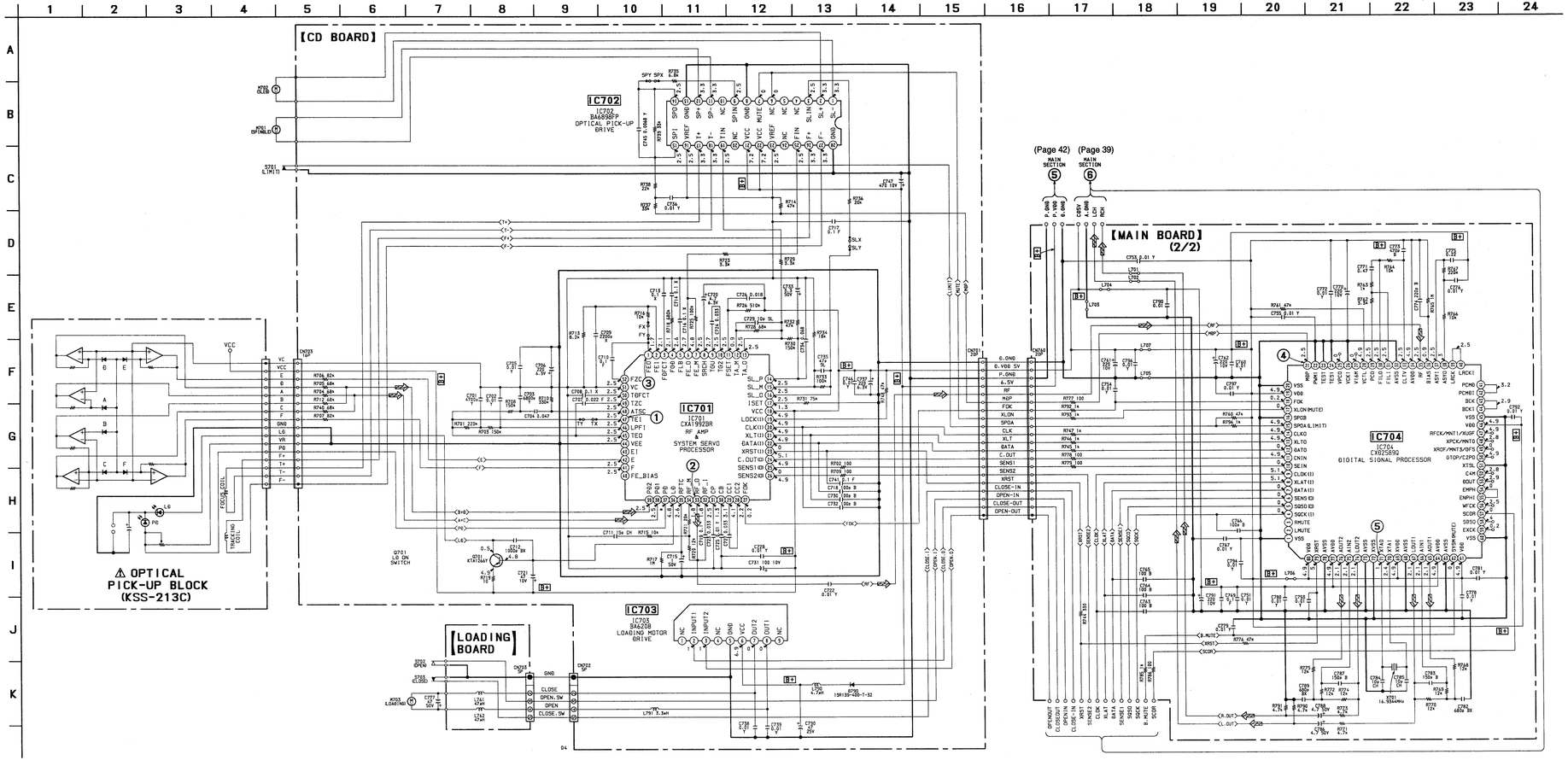
• **Waveforms** (MODE:PLAY)



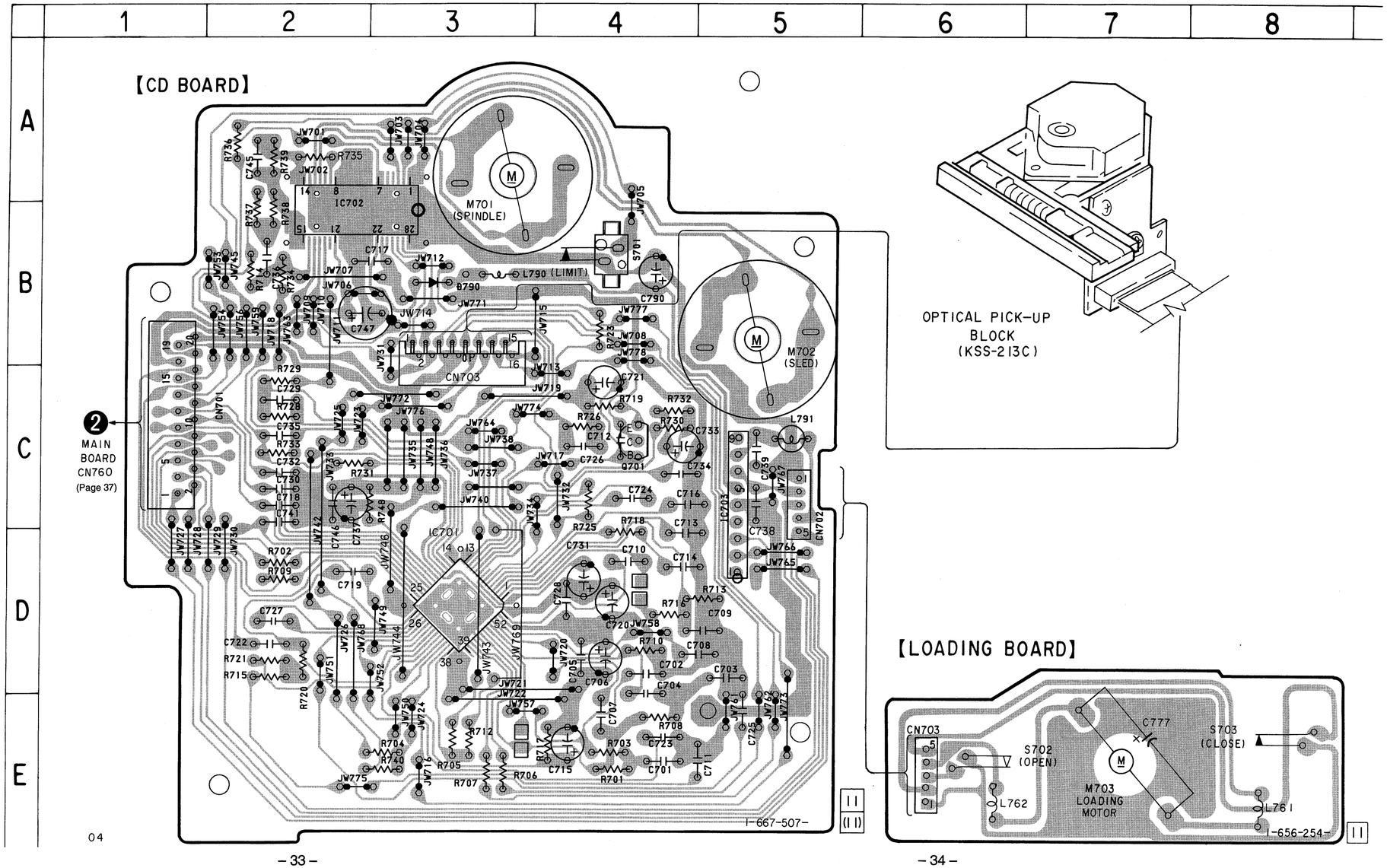
Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD



5-8. PRINTED WIRING BOARDS — CD SECTION —



• **Semiconductor Location**

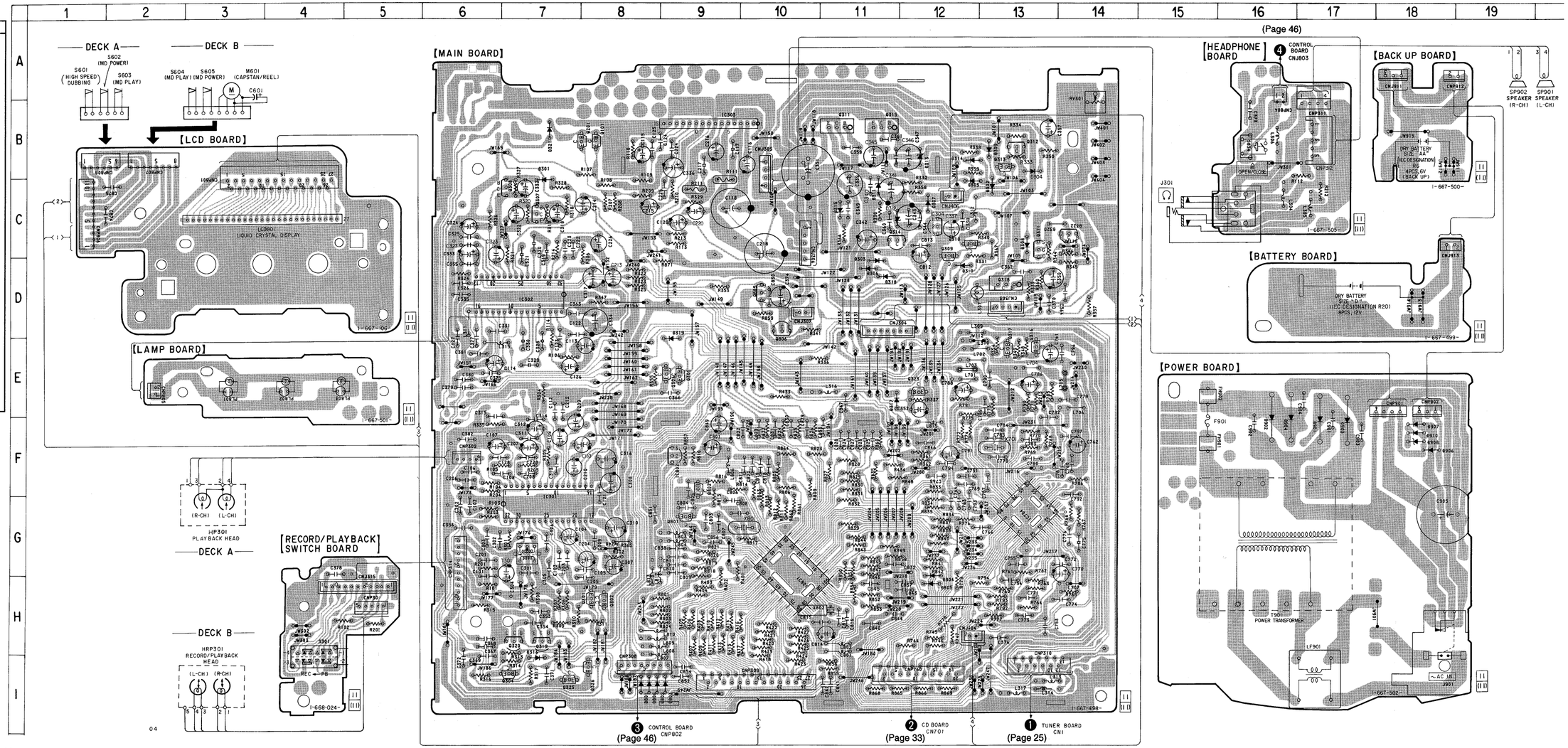
Ref. No.	Location
D790	B-3
IC701	D-3
IC702	B-2
IC703	C-5
Q701	C-4

Note:
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

5-9. PRINTED WIRING BOARDS — MAIN SECTION —

• **Semiconductor Location**

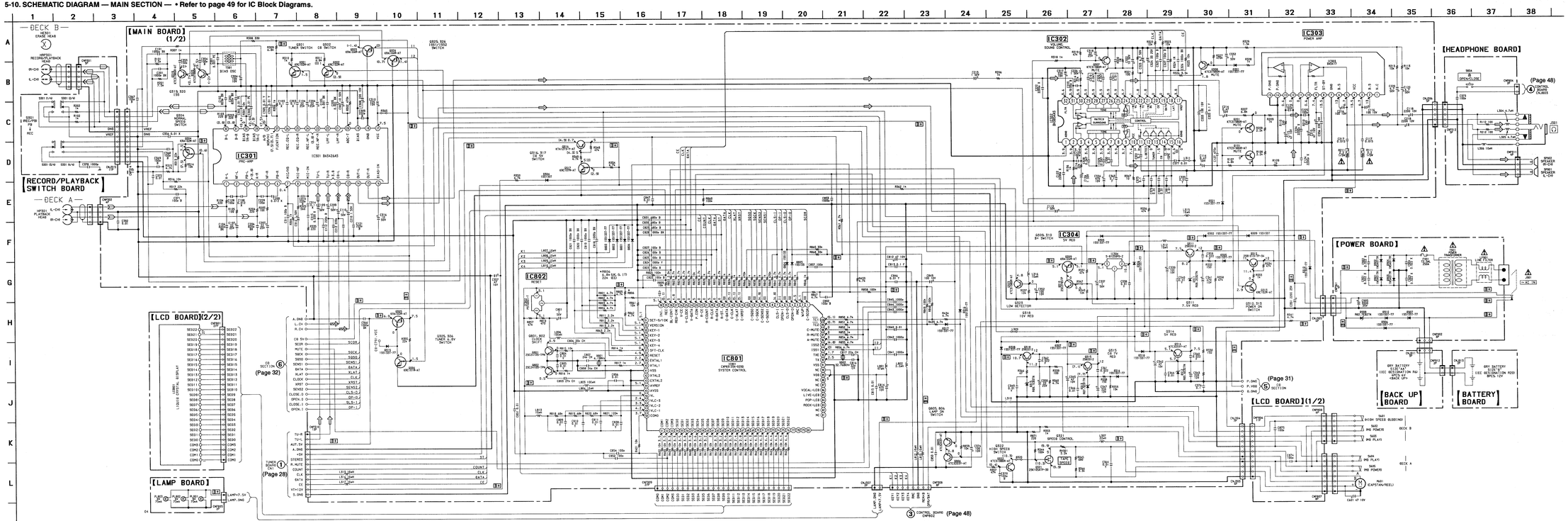
Ref. No.	Location	Ref. No.	Location
D301	B-7	IC303	B-9
D302	C-13	IC304	C-12
D303	D-11	IC704	G-13
D304	B-13	IC801	H-10
D305	C-12	IC802	F-9
D306	D-11		
D307	C-12	Q101	B-8
D308	C-13	Q201	B-8
D309	B-13	Q301	H-7
D310	D-12	Q302	H-8
D311	C-11	Q304	I-7
D312	C-11	Q305	E-9
D313	B-12	Q306	E-9
D314	B-12	Q307	C-7
D315	C-11	Q308	C-7
D316	H-7	Q309	C-12
D317	E-11	Q310	C-12
D318	D-11	Q311	B-11
D319		Q312	B-13
D321	B-7	Q313	B-13
D801	I-8	Q314	C-11
D802	I-8	Q315	B-11
D803	I-9	Q316	D-13
D804	H-12	Q317	D-13
D805	H-12	Q318	D-13
D806	I-8	Q319	H-7
D901	F-17	Q320	H-7
D902	F-16	Q321	C-13
D903	F-17	Q322	C-14
D904	F-16	Q323	E-12
D906	F-18	Q325	I-7
D907	F-18	Q326	I-8
D908	F-18	Q801	G-9
D910	F-18	Q802	F-9
		Q805	D-10
IC301	F-7	Q806	D-10
IC302	D-7		



Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  - G : German model.
  - IT : Italian model.
  - EE : East European model.

5-10. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 49 for IC Block Diagrams.

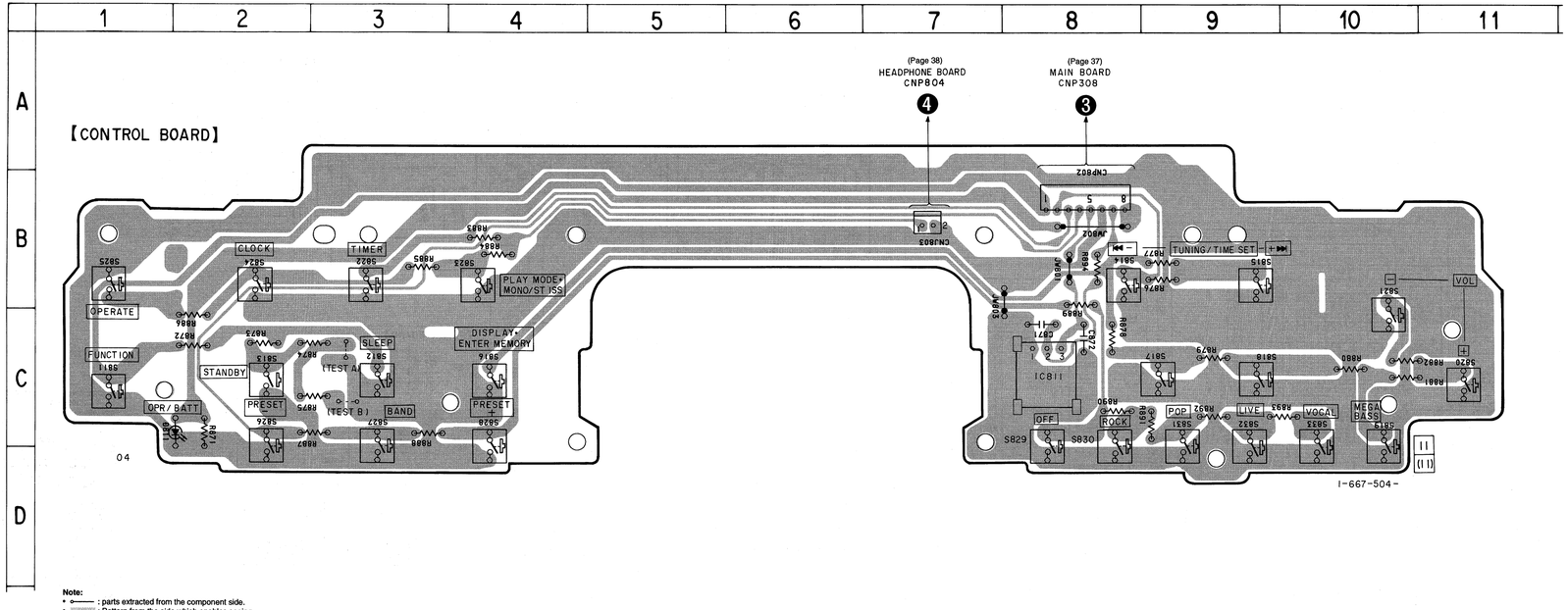


Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

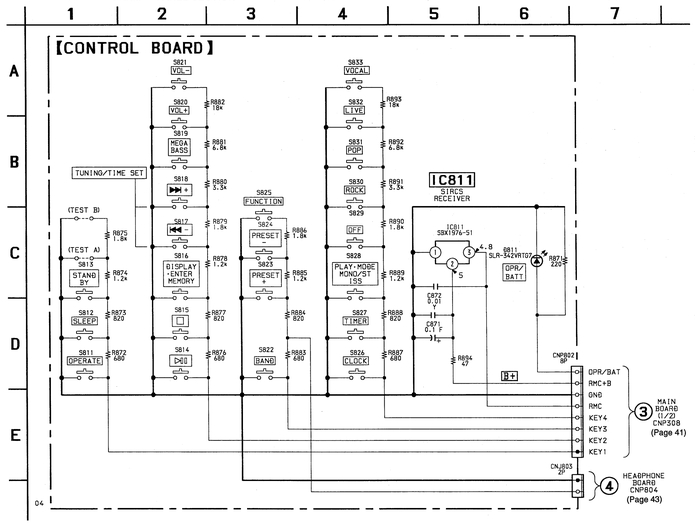
- : B+ Line.
- : adjustment for repair.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)
  : CD
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

5-11. PRINTED WIRING BOARD — PANEL SECTION —



Note:
- ⟵ : parts extracted from the component side.
- ▒▒ : Pattern from the side which enables seeing.

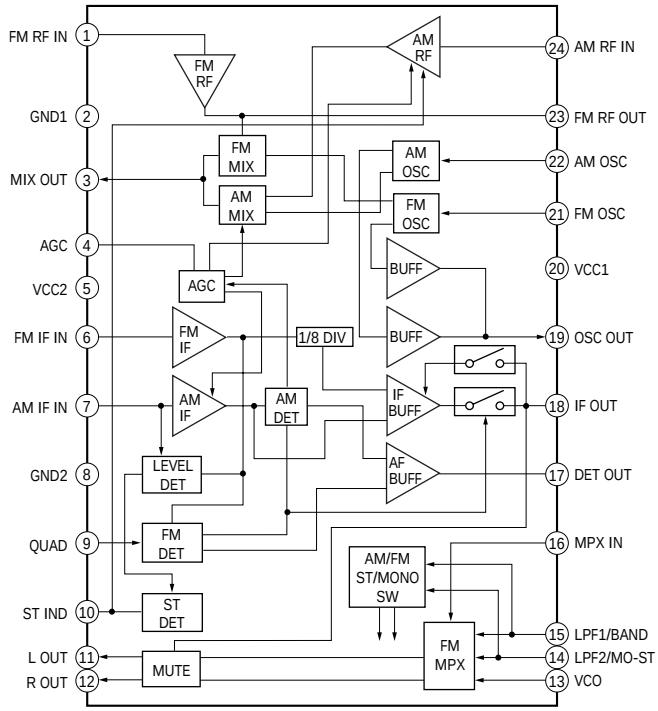
5-12. SCHEMATIC DIAGRAM — PANEL SECTION —



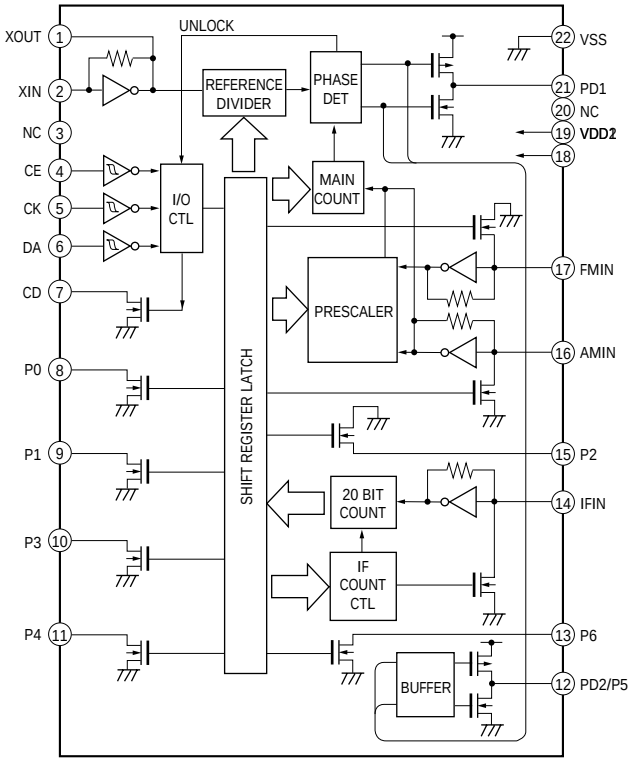
Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

• **IC Block Diagrams**

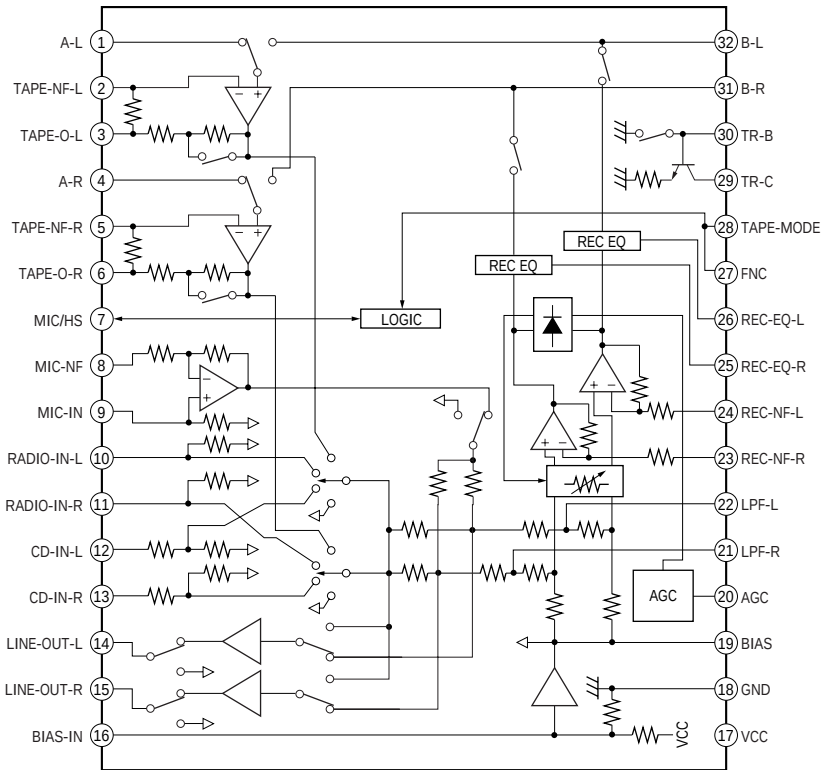
IC1 TA2008AN



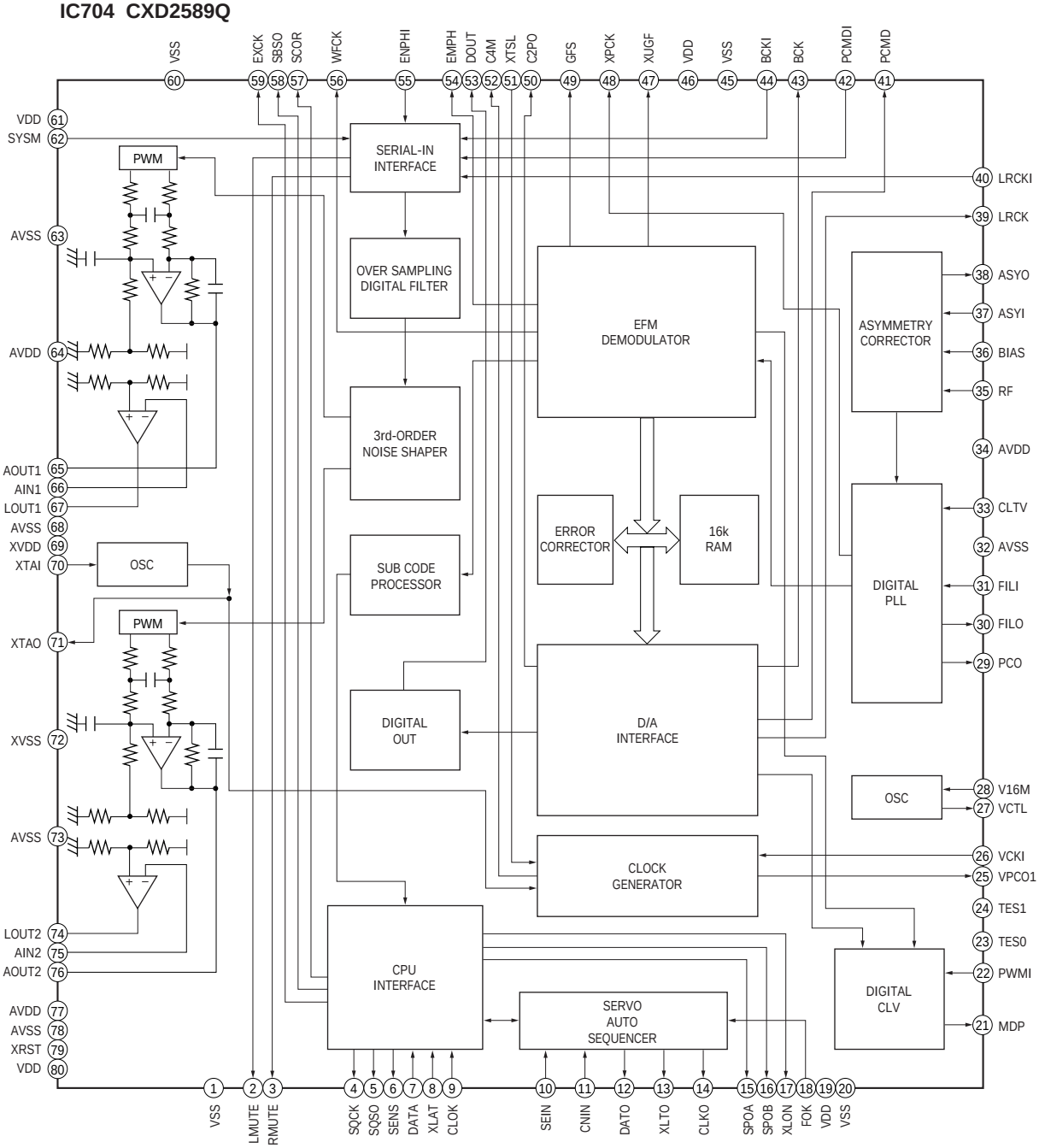
IC2 BU2615S



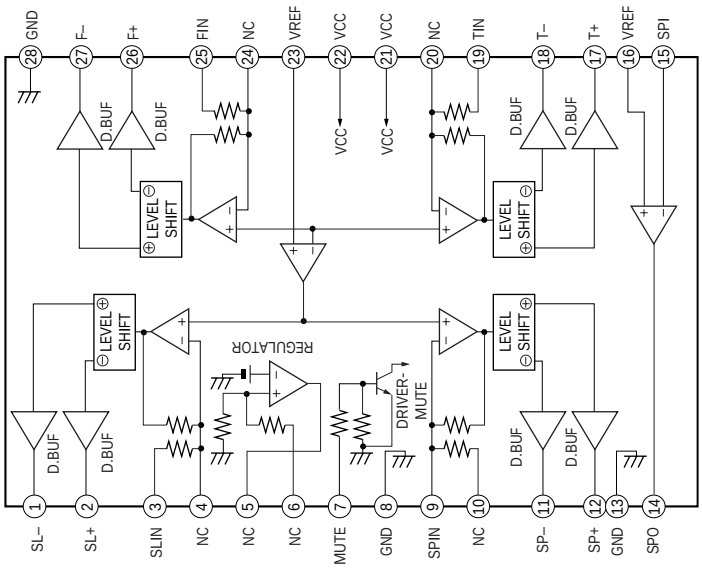
IC301 BA3426AS



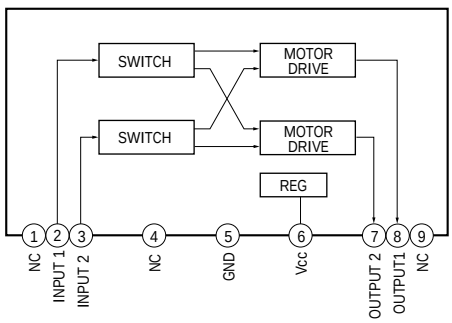
IC704 CXD2589Q



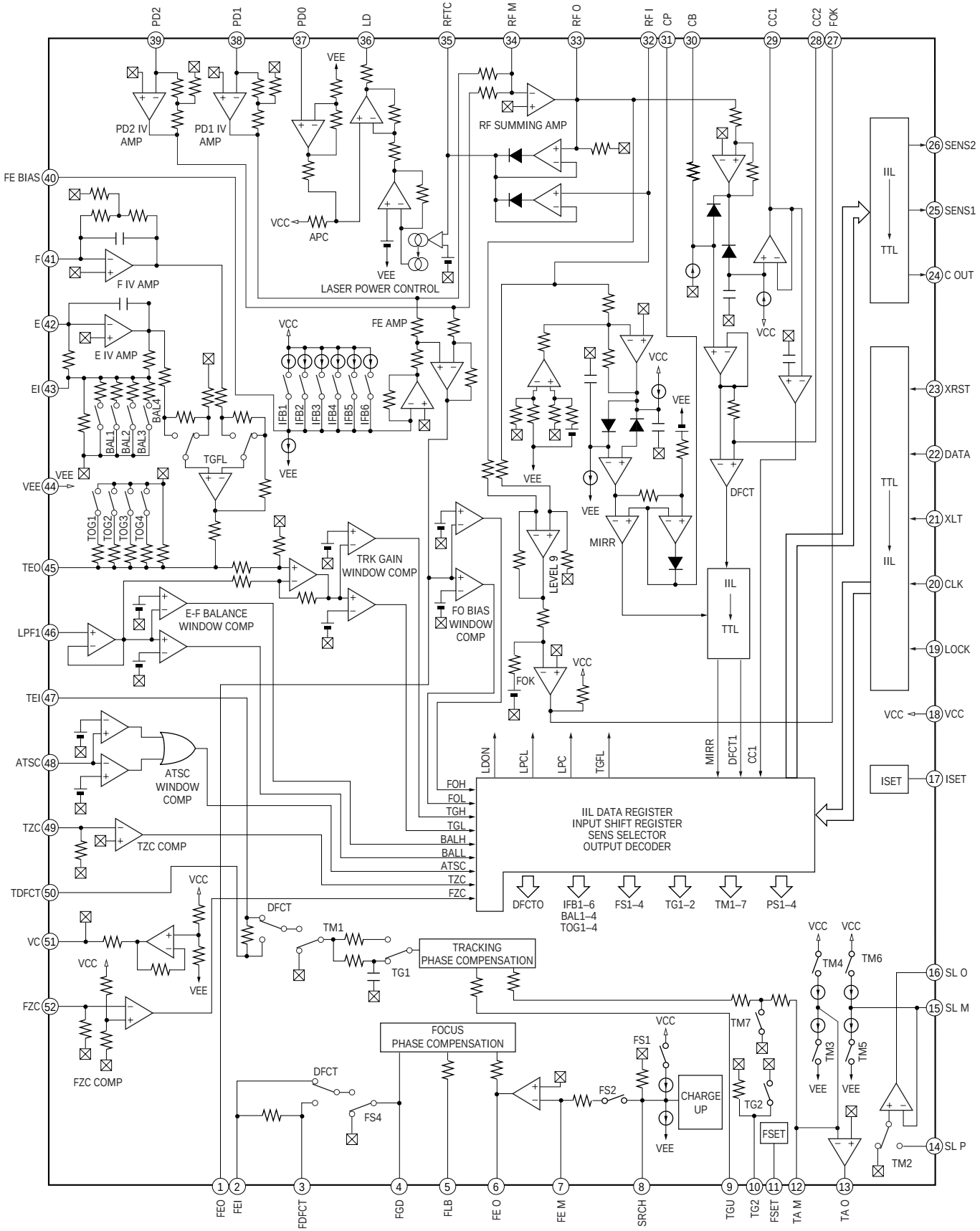
IC702 BA6898FP



IC703 BA6208



IC701 CXA1992BR

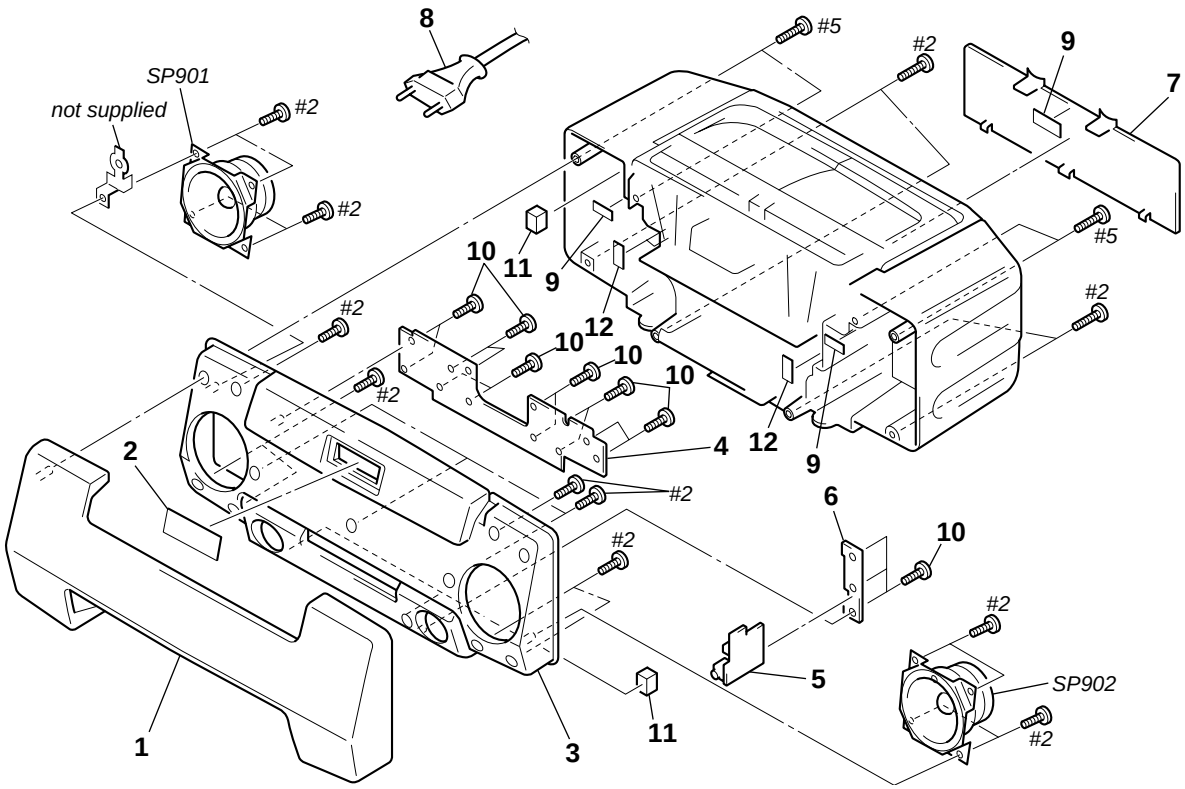


SECTION 6
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  IT : Italian model
  EE : East European model
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

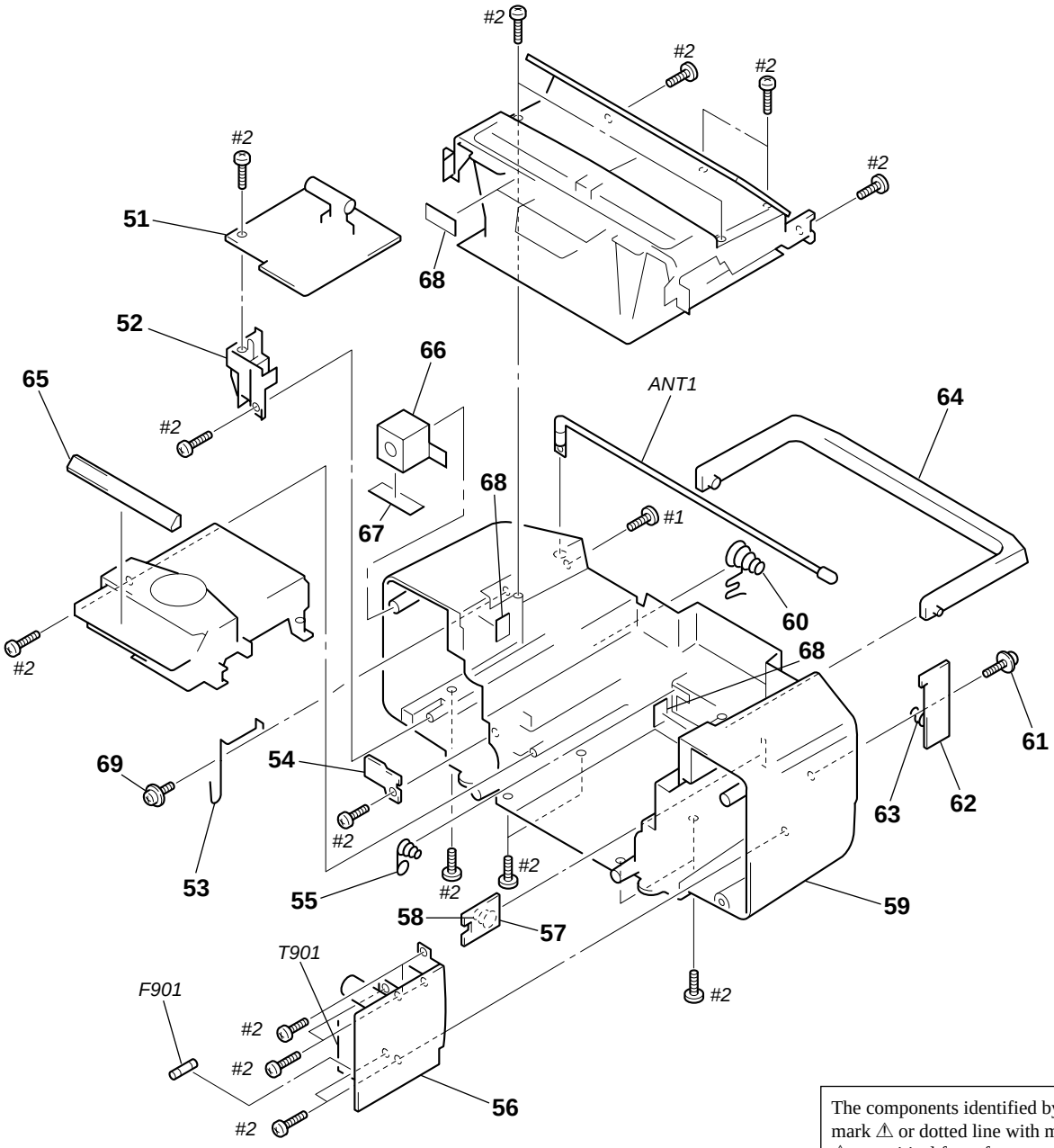
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-3374-962-1	NET SUB ASSY, SPEAKER	
2	3-021-487-01	WINDOW, LCD	
3	X-3374-961-1	CABINET SUB ASSY, FRONT (AEP,UK,IT)	
3	X-3376-249-1	CABINET SUB ASSY, FRONT (EE)	
* 4	A-3322-237-A	CONTROL BOARD, COMPLETE	
* 5	1-667-505-11	HEADPHONE BOARD	
* 6	1-668-026-11	H/P RETAINER BOARD	
7	3-017-470-01	LID, BATTERY CASE	
⚠8	1-696-820-21	CORD, POWER	
9	3-831-441-99	CUSHION, SPEAKER	
10	4-951-620-01	SCREW (2.6X8), +BVTP	
11	3-028-399-01	RUBBER (R)	
* 12	3-028-222-02	CUSHION, MAIN	
SP901	1-505-608-11	SPEAKER (8cm) (L-CH)	
SP902	1-505-608-11	SPEAKER (8cm) (R-CH)	

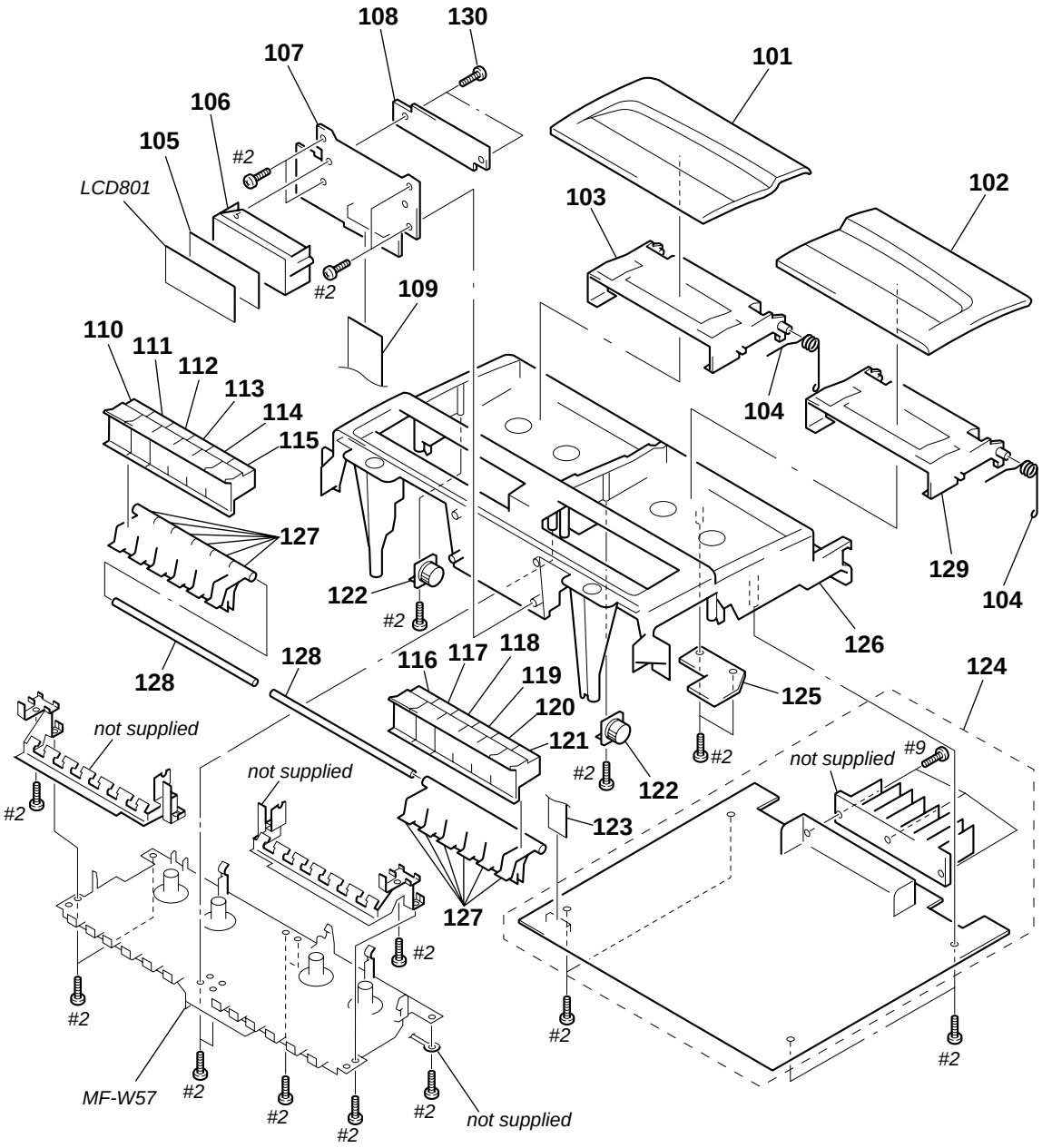
6-2. REAR CABINET SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

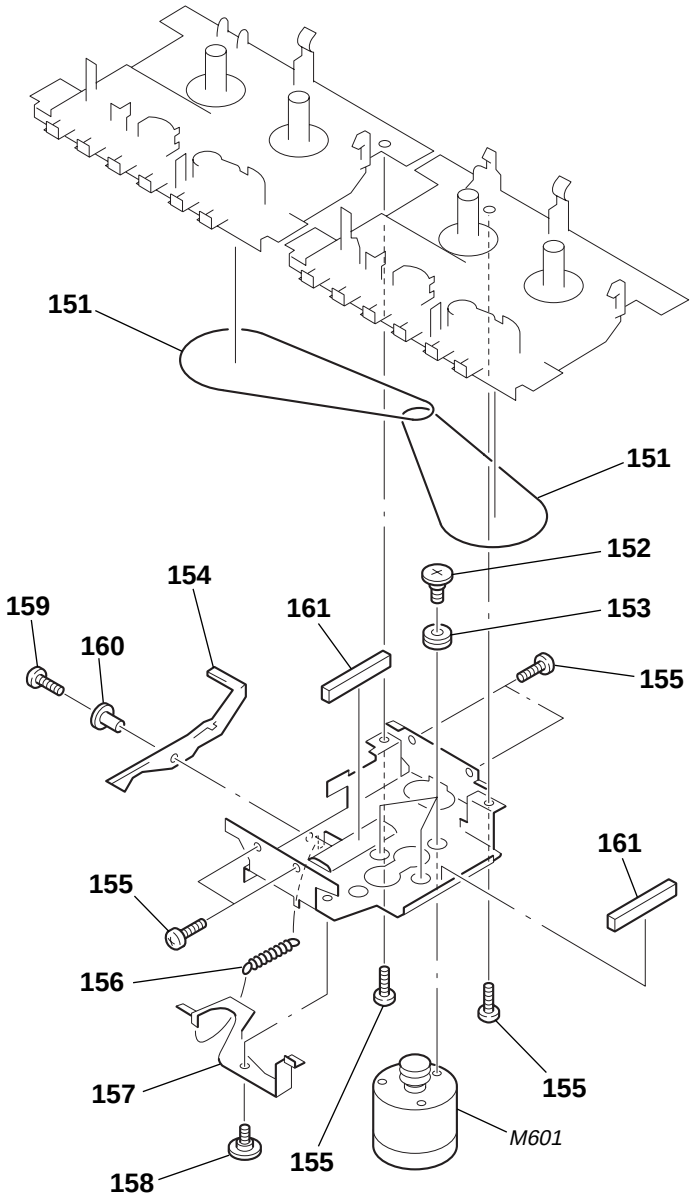
Ref. No.	Part No.	Description	Remark
* 51	A-3322-240-A	TUNER BOARD, COMPLETE (AEP,UK,IT)	
* 51	A-3322-248-A	TUNER BOARD, COMPLETE (EE)	
* 52	3-021-492-01	CHASSIS, TUNER	
53	3-021-488-01	TERMINAL, ANTENNA	
* 54	1-668-025-11	TUNER STOPPER BOARD	
55	3-025-891-01	SPRING (+.–) (S), BATTERY	
* 56	1-667-502-11	POWER BOARD	
* 57	1-667-500-11	BACK UP BATTERY BOARD	
58	3-025-890-01	SPRING, BACK UP (–)	
59	3-021-489-01	CABINET, REAR (AEP,UK,IT)	
59	3-021-489-11	CABINET, REAR (EE)	
60	3-024-945-01	SPRING (+ –), BATTERY	
61	3-911-135-01	SCREW (2.6X10), (+PWH) TAPPING	
* 62	1-667-499-11	BATTERY BOARD	
63	3-025-889-01	SPRING (–) (L), BATTERY	
64	3-021-490-01	HANDLE	
65	3-021-486-01	LID, CD	
66	3-025-892-01	BRACKET (REAR)	
67	3-028-222-01	CUSHION, MAIN	
68	3-831-441-99	CUSHION, SPEAKER	
69	4-917-583-71	BRACKET, YOKE	
ANT1	1-501-918-21	ANTENNA, TELESCOPIC	
⚠F901	1-532-464-21	FUSE, TIME-LAG (T2.5AL/250V)	
⚠T901	1-435-078-11	TRANSFORMER, POWER	

6-3. UPPER CABINET SECTION



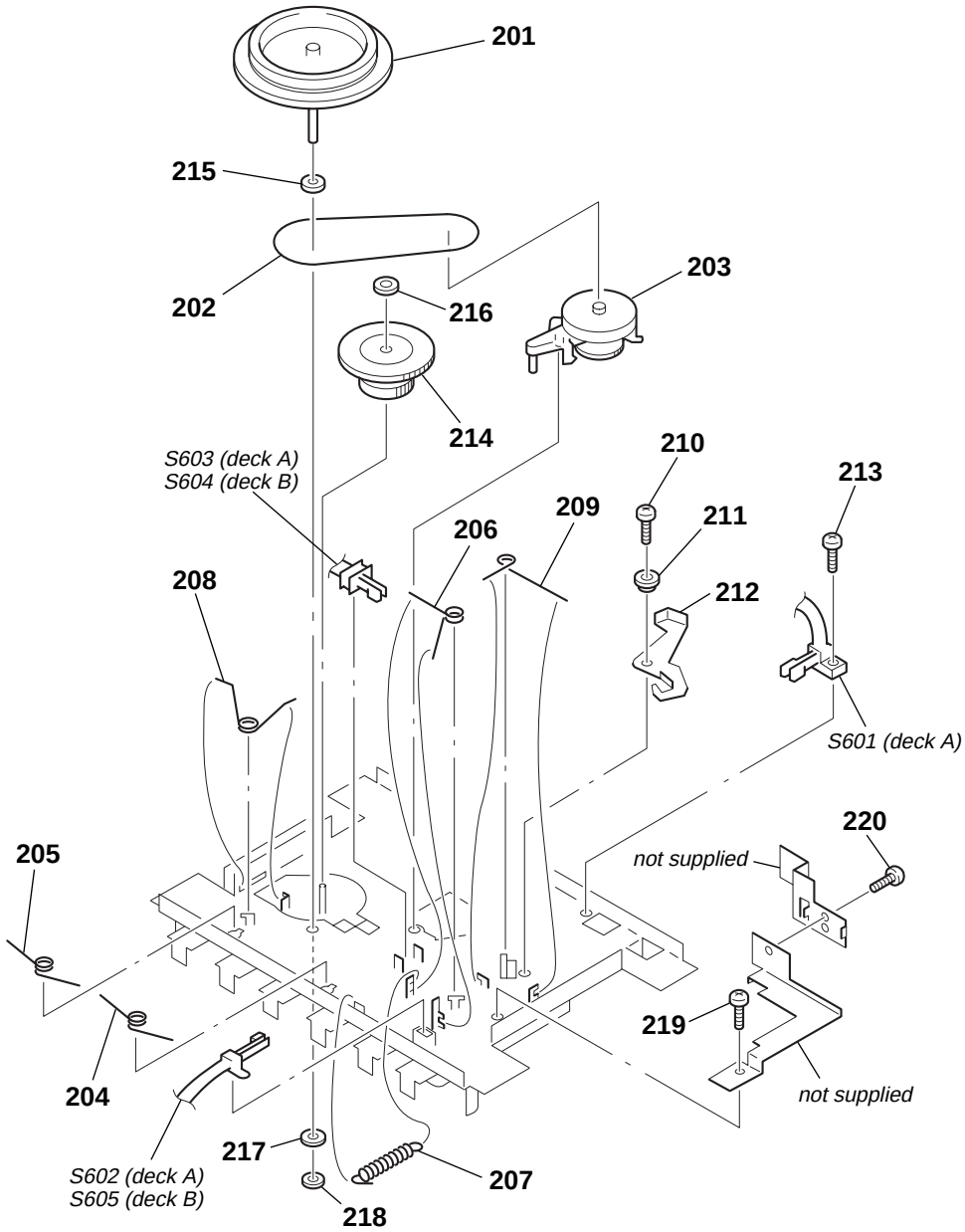
Ref. No.	Part No.	Description	Remark
101	X-3374-963-1	LID SUB ASSY (A), CASSETTE	
102	X-3374-964-1	LID SUB ASSY (B), CASSETTE	
103	3-029-935-01	HOLDER (A), CASSETTE	
104	3-021-485-01	SPRING, CASSETTE OPEN	
105	3-021-465-01	ILLUMINATOR	
106	3-021-484-01	HOLDER, LCD	
* 107	1-667-506-11	LCD BOARD	
* 108	1-667-501-11	LAMP BOARD	
109	1-791-648-11	CABLE, FLAT (27 CORE)	
110	3-021-466-01	BUTTON (HI-SPEED-A), MD	
111	3-021-467-01	BUTTON (PLAY-A), MD	
112	3-021-468-01	BUTTON (REW-A), MD	
113	3-021-469-01	BUTTON (FF-A), MD	
114	3-021-470-01	BUTTON (S/EJECT-A), MD	
115	3-021-471-01	BUTTON (PAUSE-A), MD	
116	3-021-472-01	BUTTON (REC-B), MD	
117	3-021-473-01	BUTTON (PLAY-B), MD	
118	3-021-474-01	BUTTON (REW-B), MD	
119	3-021-475-01	BUTTON (FF-B), MD	
120	3-021-476-01	BUTTON (S/EJECT-B), MD	
121	3-021-477-01	BUTTON (PAUSE-B), MD	
122	3-922-112-21	DAMPER	
123	1-791-643-11	CABLE, FLAT (13 CORE)	
* 124	A-3323-330-A	MAIN BOARD, COMPLETE (AEP,UK,IT)	
* 124	A-3323-332-A	MAIN BOARD, COMPLETE (EE)	
* 125	1-668-024-11	REC BOARD	
126	3-021-464-01	CABINET, UPPER	
127	3-024-946-01	BUTTON, LEVER	
128	3-026-331-01	SHAFT, MD	
129	3-029-936-01	HOLDER (B), CASSETTE	
130	4-951-620-11	SCREW (2.6X10), +BVTP	
LCD801	1-801-909-11	DISPLAY PANEL, LIQUID CRYSTAL	

6-4. TAPE MECHANISM SECTION-1 (MF-W57)



Ref. No.	Part No.	Description	Remark
151	3-014-775-01	BELT, M	
152	3-014-773-01	SCREW, M COLLAR	
153	3-014-772-01	RUBBER, MOTOR	
154	3-014-790-01	LEVER (B), P KICK	
155	3-014-780-01	C SCREW 2X4	
156	3-014-794-01	SPRING, P KICK LEVER	
157	3-014-791-01	LEVER (A), P KICK	
158	3-014-792-01	SCREW (A), PK COLLAR	
159	3-915-809-01	C TAPPING SCREW M2X6	
160	3-915-827-01	COLLAR (B)	
161	3-014-776-01	MAT, VIBRATION PROOF	
M601	X-3369-087-1	MOTOR (CAPSTAN/REEL)	

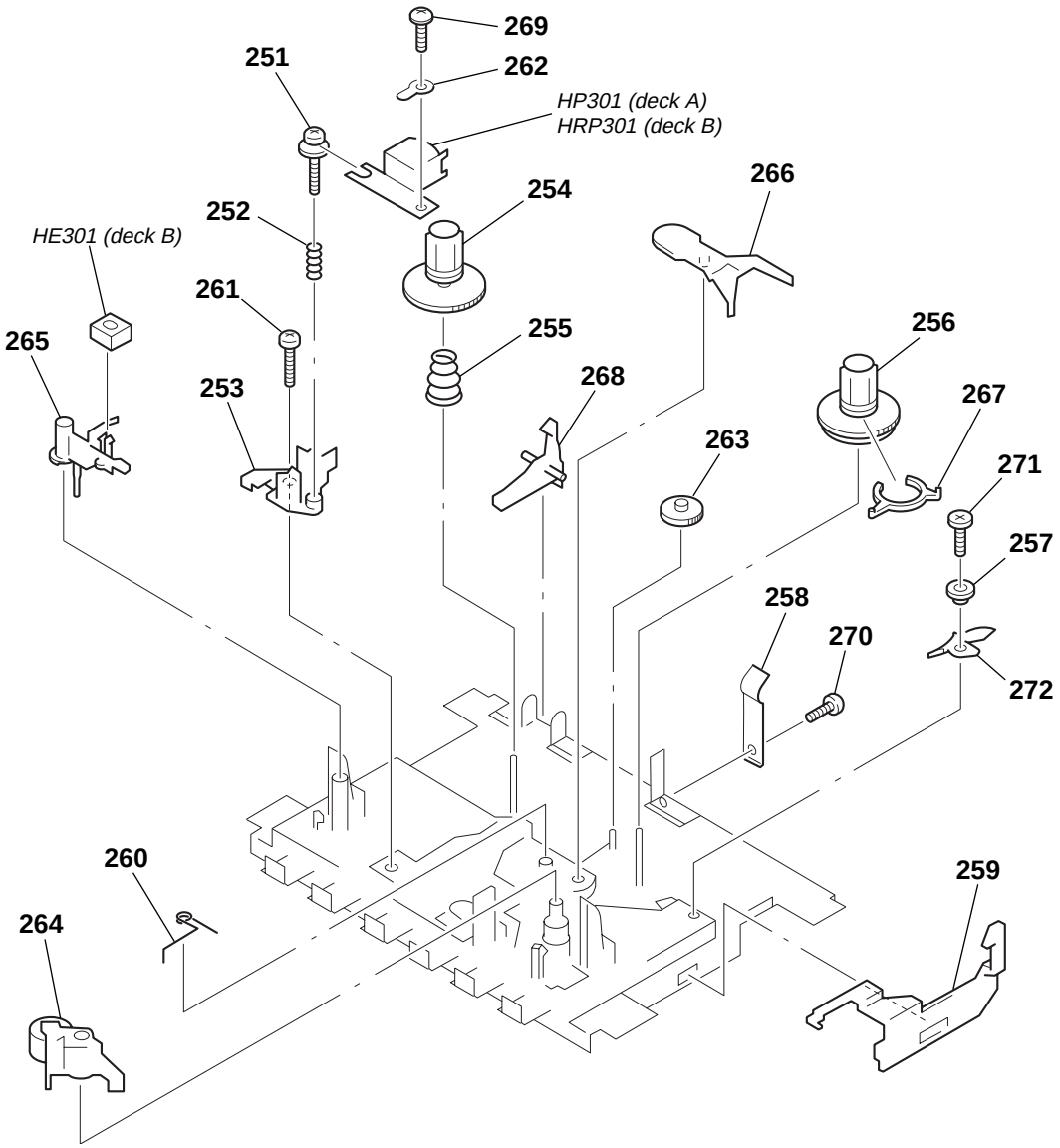
6-5. TAPE MECHANISM SECTION-2 (MF-W57)



Ref. No.	Part No.	Description	Remark
201	3-014-764-01	FLYWHEEL (DECK B)	
201	3-014-765-01	FLYWHEEL (DECK A)	
202	3-014-763-01	F BELT (W)	
203	3-014-762-01	CLUTCH, RF	
204	3-014-747-01	BUTTON LEVER SPRING (A)	
205	3-014-752-01	BUTTON LEVER SPRING (B)	
206	3-014-749-01	PS LEVER SPRING	
207	3-014-754-01	PLAY BUTTON LEVER SPRING	
208	3-014-748-01	E ACTUATOR SPRING	
209	3-014-751-01	REC BUTTON SPRING	
210	3-014-780-01	C SCREW 2X4 (DECK A)	
211	3-014-759-01	P ARM COLLAR (DECK A)	
212	3-014-758-01	RECORD ARM (DECK A)	
213	3-014-784-01	C SCREW 2X5 (DECK A)	

Ref. No.	Part No.	Description	Remark
214	3-915-792-01	GEAR, CAM	
215	3-920-350-01	P WASHER 2X3.5X0.4	
216	3-014-787-01	C WASHER	
217	3-014-788-01	C WASHER	
218	3-920-346-01	N.W 1.7X3.2X0.4	
219	3-014-779-01	C SCREW 2X3 (DECK B)	
220	3-014-783-01	SCREW 2X6 (DECK B)	
S601	1-771-134-11	SWITCH, REC (HIGH SPEED DUBBING) (DECK A)	
S602	1-771-135-11	SWITCH, LEAF (MD POWER) (DECK A)	
S603	1-762-023-11	SWITCH, LEAF (MD PLAY) (DECK A)	
S604	1-762-023-11	SWITCH, LEAF (MD PLAY) (DECK B)	
S605	1-771-135-11	SWITCH, LEAF (MD POWER) (DECK B)	

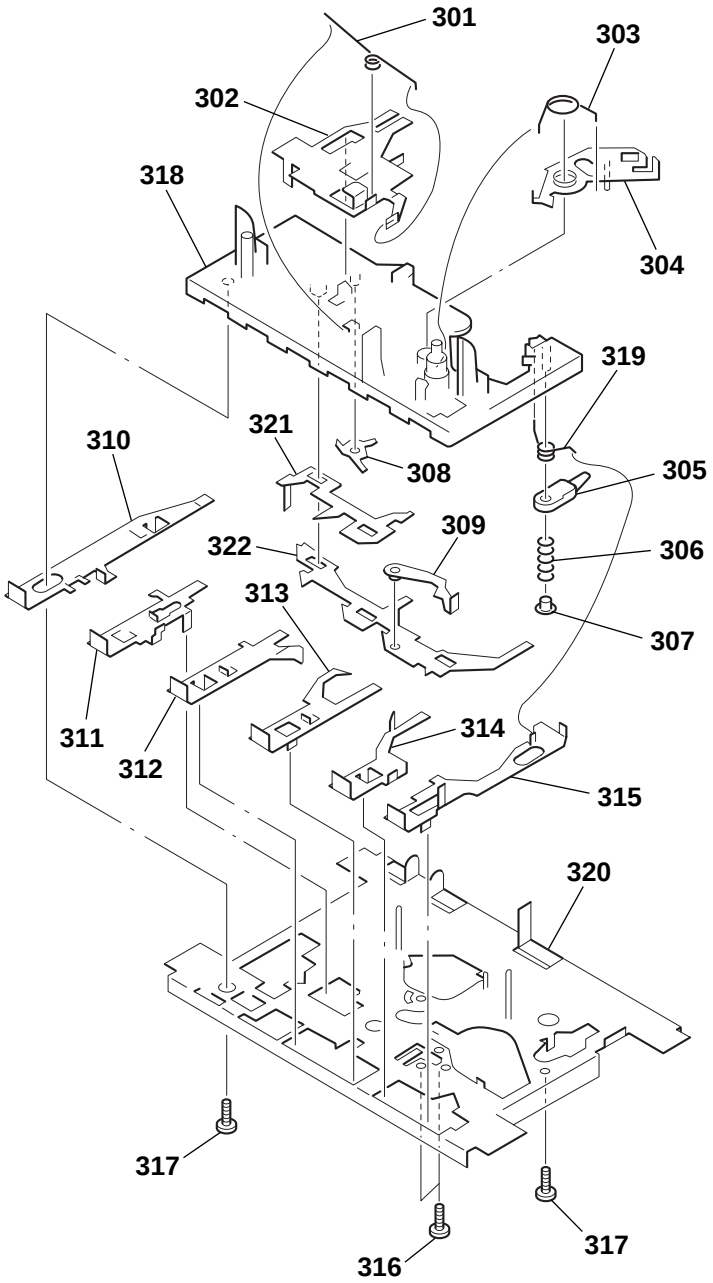
6-6. TAPE MECHANISM SECTION-3 (MF-W57)



Ref. No.	Part No.	Description	Remark
251	3-014-786-01	A SCREW 2X7	
252	3-014-760-01	AZIMUTH SPRING	
253	3-014-755-01	HEAD BASE	
254	3-014-769-01	S REEL HUB	
255	3-014-768-01	SPRING, BACK TENSION	
256	3-014-770-01	REEL, T.U.	
257	3-014-759-01	P ARM COLLAR	
* 258	3-014-778-01	PACK SPRING PLATE	
259	3-014-777-01	EJECT SLIDE LEVER	
260	3-014-757-01	M CONTROL SPRING	
261	3-014-783-01	SCREW 2X6	
* 262	3-014-789-01	B3 LUG	
263	3-348-357-01	GEAR, FF	

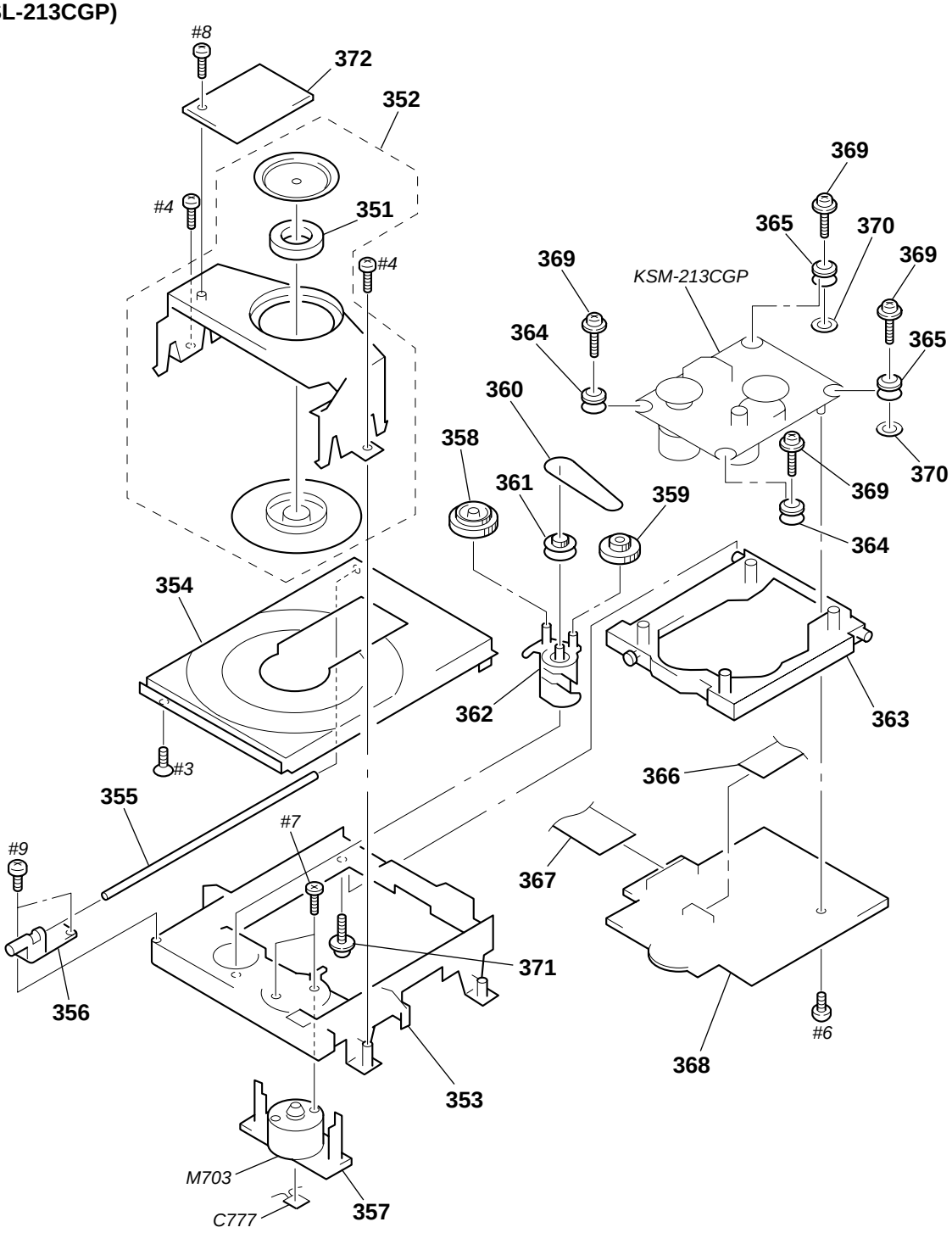
Ref. No.	Part No.	Description	Remark
264	3-913-436-01	ARM ASSY, PINCH ROLLER	
265	3-915-782-01	ARM, MG (DECK B)	
266	3-915-785-01	LEVER, SENSING	
267	3-915-797-01	SENSOR	
* 268	3-920-405-01	LEVER, REC SAFETY (DECK B)	
269	3-014-785-01	B SCREW 2X3	
270	3-014-779-01	C SCREW 2X3	
271	3-915-816-01	PS TAPPING SCREW M2X3	
272	3-915-873-01	P ARM	
HE301	1-500-139-11	HEAD, ERASE (DECK B)	
HP301	1-500-138-11	HEAD, PLAYBACK (DECK A)	
HRP301	1-500-138-11	HEAD, RECORD/PLAYBACK (DECK B)	

6-7. TAPE MECHANISM SECTION-4 (MF-W57)



Ref. No.	Part No.	Description	Remark
301	3-014-756-01	PANEL P SPRING	
* 302	3-014-753-01	HEAD PANEL	
303	3-014-766-01	GEAR PLATE SPRING	
304	3-014-767-01	GEAR PLATE	
305	3-014-744-01	LEVER (F), PAUSE	
306	3-014-745-01	P LEVER SPRING	
307	3-014-746-01	PAUSE STOPPER	
308	3-014-761-01	PR STOPPER	
* 309	3-014-750-01	E KICK LEVER	
* 310	3-014-738-01	REC BUTTON LEVER	
* 311	3-014-739-01	PLAY BUTTON LEVER	
* 312	3-014-740-01	REW BUTTON LEVER	
* 313	3-014-741-01	FF BUTTON LEVER	
* 314	3-014-742-01	STOP BUTTON LEVER	
* 315	3-014-743-01	PAUSE BUTTON LEVER	
316	3-014-782-01	CT SCREW 2X4.5	
317	3-014-781-01	PB SCREW 2X5	
318	3-915-740-01	BASE ASSY (A)	
319	3-915-752-01	SPRING, P CONTROL	
* 320	3-915-757-01	CHASSIS ASSY	
* 321	3-014-736-01	SW ACTUATOR	
* 322	3-014-737-01	PUSH BUTTON ACTUATOR	

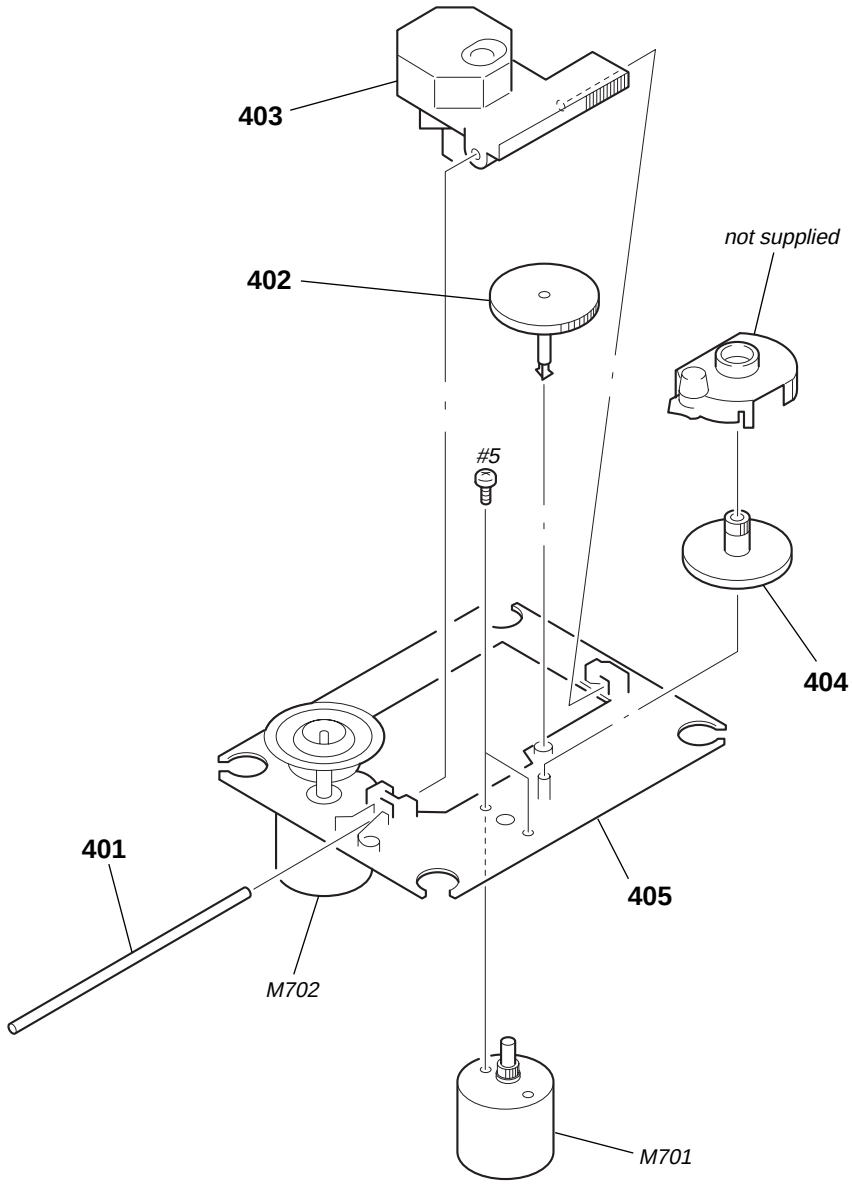
6-8. CD MECHANISM SECTION (KSL-213CGP)



Ref. No.	Part No.	Description	Remark
351	1-452-493-21	MAGNET	
* 352	X-2625-880-1	HOLDER (MG) ASSY	
* 353	2-627-169-01	CHASSIS	
354	2-627-170-01	TABLE, DISC	
* 355	2-627-171-01	SHAFT (TABLE GUIDE)	
356	2-627-164-01	BEARING	
* 357	1-656-254-11	LOADING BOARD	
358	2-627-163-01	GEAR (P)	
359	2-627-162-01	GEAR (C)	
360	4-927-649-01	BELT	
361	2-627-172-01	PULLEY (S)	
362	2-627-166-01	CAM	

Ref. No.	Part No.	Description	Remark
* 363	X-2625-879-1	HOLDER (BU) ASSY	
364	3-910-095-01	RUBBER, VIBRATION PROOF	
365	3-910-095-11	RUBBER, VIBRATION PROOF	
366	1-791-641-11	CABLE, FLAT (16 CORE)	
367	1-791-647-11	CABLE, FLAT (20 CORE)	
* 368	A-3322-241-A	CD BOARD, COMPLETE	
369	3-916-006-01	SCREW (2.6X16)	
370	3-179-652-01	WASHER	
* 371	4-917-583-21	BRACKET, YOKE	
* 372	1-670-439-11	CD BRACKET BOARD	
C777	1-136-165-00	FILM 0.1uF 5%	50V
M703	X-2625-878-1	MOTOR ASSY, LOADING	

6-9. OPTICAL PICK-UP SECTION (KSM-213CGP)



The components identified by mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
401	2-626-908-01	SHAFT, SLED	
402	2-626-907-01	GEAR (A)	
⚠403	8-848-483-05	PICK-UP, OPTICAL KSS-213C/Q-RP	
404	2-627-003-02	GEAR (B)	
405	X-2625-770-1	CHASSIS ASSY (MB), MOTOR (INCLUDING M702) (SPINDLE)	
M701	X-2625-769-1	MOTOR GEAR ASSY (SLED)	

SECTION 7
ELECTRICAL PARTS LIST

BACK UP

BATTERY **CD**

NOTE:
- Due to standardization, replacements in the par ts list ma y be diff erent from the par ts specified in the diag rams or the components used on the set.
- -XX and -X mean standardized parts, so the y ma y ha ve some diff erence from the original one.
- RESIST ORS
  All resistors are in ohms.
  METAL:Metal-film resistor .
  METAL OXIDE: Metal o xide-film resistor .
  F:nonflammable
- Abbre viation
  G : German model
  IT : Italian model
  EE : East European model
- Items mar ked "*"are not stoc ked since the y are seldom required f or routine ser vice. Some delay should be anticipated when ordering these items.
- SEMICONDUCT ORS
  In each case , u : μ, for e xample:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified b y mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.

When indicating parts by reference number , please include the board.

Ref. No.	Part No.	Description			Remark
*	1-667-500-11	BACK UP BOARD			
		**********			
	3-939-057-01	SPRING (-), BACK UP			
		< CONNECTOR >			
CNP912	1-564-505-11	PLUG, CONNECTOR 2P			
**********					
*	1-667-499-11	BATTERY BOARD			
		**********			
	3-017-439-01	SPRING (-) (L), BATTERY			
**********					
*	A-3321-227-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C702	1-162-306-11	CERAMIC	0.01uF	20%	16V
C703	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C704	1-130-491-00	MYLAR	0.047uF	5%	50V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-126-934-11	ELECT	220uF	20%	16V
C707	1-101-005-00	CERAMIC	22000PF		50V
C708	1-162-851-11	CERAMIC	0.1uF	10%	16V
C709	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C710	1-162-851-11	CERAMIC	0.1uF	10%	16V
C711	1-162-203-31	CERAMIC	15PF	5%	50V
C712	1-162-294-31	CERAMIC	0.001uF	10%	50V
C713	1-162-851-11	CERAMIC	0.1uF	10%	16V
C714	1-162-851-11	CERAMIC	0.1uF	10%	16V
C715	1-124-903-11	ELECT	1uF	20%	50V
C716	1-162-851-11	CERAMIC	0.1uF	10%	16V
C717	1-162-851-11	CERAMIC	0.1uF	10%	16V
C718	1-162-282-31	CERAMIC	100PF	10%	50V
C719	1-130-495-00	MYLAR	0.1uF	5%	50V
C720	1-131-375-00	TANTALUM	4.7uF	10%	10V
C721	1-104-664-11	ELECT	47uF	20%	10V
C722	1-162-306-11	CERAMIC	0.01uF	20%	16V
C723	1-130-489-00	MYLAR	0.033uF	5%	50V
C724	1-130-489-00	MYLAR	0.033uF	5%	50V
C725	1-162-306-11	CERAMIC	0.01uF	20%	16V
C726	1-130-486-00	MYLAR	0.018uF	10%	50V
C727	1-130-489-00	MYLAR	0.033uF	5%	50V

Ref. No.	Part No.	Description			Remark
C728	1-162-306-11	CERAMIC	0.01uF	20%	16V
C729	1-162-199-31	CERAMIC	10PF	5%	50V
C730	1-162-282-31	CERAMIC	100PF	10%	50V
C731	1-124-443-00	ELECT	100uF	20%	10V
C732	1-162-282-31	CERAMIC	100PF	10%	50V
C733	1-126-962-11	ELECT	3.3uF	20%	50V
C734	1-130-493-00	MYLAR	0.068uF	5%	50V
C735	1-162-215-31	CERAMIC	47PF	5%	50V
C736	1-162-306-11	CERAMIC	0.01uF	20%	16V
C737	1-126-934-11	ELECT	220uF	20%	16V
C738	1-162-306-11	CERAMIC	0.01uF	20%	16V
C739	1-162-306-11	CERAMIC	0.01uF	20%	16V
C741	1-162-851-11	CERAMIC	0.1uF	10%	16V
C745	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V
C747	1-124-472-11	ELECT	470uF	20%	10V
C790	1-104-664-11	ELECT	47uF	20%	25V
		< CONNECTOR >			
* CN701	1-695-381-31	PIN, CONNECTOR (PC BOARD) 20P			
CN703	1-770-168-11	CONNECTOR, FFC/FPC 16P			
		< DIODE >			
D790	8-719-970-02	DIODE 1SR139-400			
		< IC >			
IC701	8-752-082-14	IC CXA1992BR			
IC702	8-759-473-42	IC BA6898FP			
IC703	8-759-962-08	IC BA6208			
		< COIL >			
L790	1-410-324-11	INDUCTOR	4.7uH		
L791	1-412-553-11	MICRO INDUCTOR	3.3mH		
		< TRANSISTOR >			
Q701	8-729-037-05	TRANSISTOR KTA1266Y			
		< RESISTOR >			
R701	1-247-887-00	CARBON	220K	5%	1/4W
R702	1-247-807-11	CARBON	100	5%	1/4W
R703	1-247-883-00	CARBON	150K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-439-11	CARBON	68K	5%	1/4W

CD CONTROL

Ref. No.	Part No.	Description			Remark
R706	1-249-440-11	CARBON	82K	5%	1/4W
R707	1-249-440-11	CARBON	82K	5%	1/4W
R708	1-247-883-00	CARBON	150K	5%	1/4W
R709	1-247-807-11	CARBON	100	5%	1/4W
R710	1-247-891-00	CARBON	330K	5%	1/4W
R712	1-249-439-11	CARBON	68K	5%	1/4W
R713	1-249-428-11	CARBON	8.2K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W
R717	1-247-903-00	CARBON	1M	5%	1/4W
R718	1-247-899-11	CARBON	680K	5%	1/4W
R719	1-249-393-11	CARBON	10	5%	1/4W
R720	1-249-430-11	CARBON	12K	5%	1/4W
R721	1-247-862-11	CARBON	20K	5%	1/4W
R723	1-247-843-11	CARBON	3.3K	5%	1/4W
R725	1-249-441-11	CARBON	100K	5%	1/4W
R726	1-247-896-11	CARBON	510K	5%	1/4W
R728	1-249-439-11	CARBON	68K	5%	1/4W
R729	1-247-843-11	CARBON	3.3K	5%	1/4W
R730	1-247-883-00	CARBON	150K	5%	1/4W
R731	1-247-876-11	CARBON	75K	5%	1/4W
R732	1-249-437-11	CARBON	47K	5%	1/4W
R733	1-249-441-11	CARBON	100K	5%	1/4W
R734	1-249-432-11	CARBON	18K	5%	1/4W
R735	1-249-427-11	CARBON	6.8K	5%	1/4W
R736	1-247-862-11	CARBON	20K	5%	1/4W
R737	1-249-435-11	CARBON	33K	5%	1/4W
R738	1-247-863-00	CARBON	22K	5%	1/4W
R739	1-249-435-11	CARBON	33K	5%	1/4W
R740	1-249-439-11	CARBON	68K	5%	1/4W
R748	1-249-437-11	CARBON	47K	5%	1/4W
		< SWITCH >			
S701	1-762-812-11	SWITCH, LEAF (LIMIT)			

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*	A-3321-221-A	CONTROL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C871	1-164-159-21	CERAMIC	0.1uF		50V
C872	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< DIODE >			
D811	8-719-048-90	LED SLR-342VR3F (OPR/BATT)			
		< IC >			
IC811	8-742-012-11	IC SBX1976-51			
		< RESISTOR >			
R871	1-247-815-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R872	1-249-415-11	CARBON	680	5%	1/4W
R873	1-249-416-11	CARBON	820	5%	1/4W
R874	1-249-418-11	CARBON	1.2K	5%	1/4W
R875	1-249-420-11	CARBON	1.8K	5%	1/4W
R876	1-249-415-11	CARBON	680	5%	1/4W
R877	1-249-416-11	CARBON	820	5%	1/4W
R878	1-249-418-11	CARBON	1.2K	5%	1/4W
R879	1-249-420-11	CARBON	1.8K	5%	1/4W
R880	1-247-843-11	CARBON	3.3K	5%	1/4W
R881	1-249-427-11	CARBON	6.8K	5%	1/4W
R882	1-249-432-11	CARBON	18K	5%	1/4W
R883	1-249-415-11	CARBON	680	5%	1/4W
R884	1-249-416-11	CARBON	820	5%	1/4W
R885	1-249-418-11	CARBON	1.2K	5%	1/4W
R886	1-249-420-11	CARBON	1.8K	5%	1/4W
R887	1-249-415-11	CARBON	680	5%	1/4W
R888	1-249-416-11	CARBON	820	5%	1/4W
R889	1-249-418-11	CARBON	1.2K	5%	1/4W
R890	1-249-420-11	CARBON	1.8K	5%	1/4W
R891	1-247-843-11	CARBON	3.3K	5%	1/4W
R892	1-249-427-11	CARBON	6.8K	5%	1/4W
R893	1-249-432-11	CARBON	18K	5%	1/4W
R894	1-249-401-11	CARBON	47	5%	1/4W
		< SWITCH >			
S811	1-692-014-11	SWITCH, KEY BOARD (OPERATE)			
S812	1-692-014-11	SWITCH, KEY BOARD (SLEEP)			
S813	1-692-014-11	SWITCH, KEY BOARD (STANDBY)			
S814	1-692-014-11	SWITCH, KEY BOARD (▷ Π)			
S815	1-692-014-11	SWITCH, KEY BOARD (π)			
S816	1-692-014-11	SWITCH, KEY BOARD (DISPLAY• ENTER MEMORY)			
S817	1-692-014-11	SWITCH, KEY BOARD (TUNING/ TIME SET I◀◀ -)			
S818	1-692-014-11	SWITCH, KEY BOARD (TUNING/ TIME SET ▶▶I +)			
S819	1-692-014-11	SWITCH, KEY BOARD (MEGA BASS)			
S820	1-692-014-11	SWITCH, KEY BOARD (VOL +)			
S821	1-692-014-11	SWITCH, KEY BOARD (VOL -)			
S822	1-692-014-11	SWITCH, KEY BOARD (BAND)			
S823	1-692-014-11	SWITCH, KEY BOARD (PRESET +)			
S824	1-692-014-11	SWITCH, KEY BOARD (PRESET -)			
S825	1-692-014-11	SWITCH, KEY BOARD (FUNCTION)			
S826	1-692-014-11	SWITCH, KEY BOARD (CLOCK)			
S827	1-692-014-11	SWITCH, KEY BOARD (TIMER)			
S828	1-692-014-11	SWITCH, KEY BOARD (PLAY MODE• MONO/ST ISS)			
S829	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE OFF)			
S830	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE ROCK)			
S831	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE POP)			
S832	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE LIVE)			
S833	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE VOCAL)			

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Ref. No.	Part No.	Description			Remark
*	1-667-505-11	HEADPHONE BOARD (UK,G,IT)			
*	1-669-900-11	HEADPHONE BOARD (EE)			
		**********			
		< CAPACITOR >			
C373	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
* CNP311	1-564-519-11	PLUG, CONNECTOR 4P			
* CNP312	1-564-520-11	PLUG, CONNECTOR 5P			
CNP804	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< JACK >			
J301	1-566-891-11	JACK (🎧)			
		< COIL >			
L304	1-410-324-11	INDUCTOR	4.7uH		
L305	1-410-324-11	INDUCTOR	4.7uH		
L306	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R112	1-247-807-11	CARBON	100	5%	1/4W
R212	1-247-807-11	CARBON	100	5%	1/4W
		< SWITCH >			
S834	1-554-088-00	SWITCH, KEY BOARD (⏏ OPEN/CLOSE)			
**********					
*	1-667-501-11	LAMP BOARD			
		**********			
		< CONNECTOR >			
* CNP805	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< PILOT LAMP >			
PL801	1-517-474-31	LAMP, PILOT (8V/75mA)			
PL802	1-517-474-31	LAMP, PILOT (8V/75mA)			
PL803	1-517-474-31	LAMP, PILOT (8V/75mA)			
**********					
*	1-667-506-11	LCD BOARD			
		**********			
	3-021-465-01	ILLUMINATOR			
	3-021-484-01	HOLDER, LCD			
		< CAPACITOR >			
C874	1-162-282-31	CERAMIC	100PF	10%	50V
C875	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNP801	1-695-388-21	PIN, CONNECTOR (PC BOARD) 27P			
* CNP806	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P			
* CNP807	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			

Ref. No.	Part No.	Description			Remark
* CNP808	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-801-909-11	DISPLAY PANEL, LIQUID CRYSTAL			
**********					
*	1-656-254-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN703	1-695-107-11	PIN, CONNECTOR (PC BOARD) 5P			
		< COIL >			
L761	1-412-852-11	INDUCTOR	47uH		
L762	1-412-852-11	INDUCTOR	47uH		
		< SWITCH >			
S702	1-572-086-11	SWITCH, LEAF (OPEN)			
S703	1-572-086-11	SWITCH, LEAF (CLOSE)			
**********					
*	A-3293-892-A	MAIN BOARD, COMPLETE (UK,G,IT)			
*	A-3321-414-A	MAIN BOARD, COMPLETE (EE)			
		**********			
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3			
		< CAPACITOR >			
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V
C102	1-162-293-31	CERAMIC	820PF	10%	50V
C103	1-162-851-11	CERAMIC	0.1uF	10%	16V
C104	1-126-233-11	ELECT	22uF	20%	50V
C105	1-162-294-31	CERAMIC	0.001uF	10%	50V
C106	1-162-293-31	CERAMIC	820PF	10%	50V
C107	1-126-233-11	ELECT	22uF	20%	50V
C108	1-162-840-11	CERAMIC	0.012uF	10%	16V
C109	1-124-903-11	ELECT	1uF	20%	50V
C110	1-124-903-11	ELECT	1uF	20%	50V
C112	1-162-286-21	CERAMIC	220PF	10%	50V
C113	1-124-903-11	ELECT	1uF	20%	50V
C114	1-124-902-00	ELECT	0.47uF	20%	50V
C115	1-104-664-11	ELECT	47uF	20%	10V
C116	1-124-443-00	ELECT	100uF	20%	10V
C117	1-136-155-00	FILM	0.015uF	5%	50V
C118	1-126-927-11	ELECT	2200uF	20%	10V
C120	1-126-963-11	ELECT	4.7uF	20%	50V
C121	1-162-286-21	CERAMIC	220PF	10%	50V
C122	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C123	1-162-282-31	CERAMIC	100PF	10%	50V
C124	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C125	1-162-282-31	CERAMIC	100PF	10%	50V
C126	1-124-903-11	ELECT	1uF	20%	50V
C127	1-162-290-31	CERAMIC	470PF	10%	50V
C128	1-162-282-31	CERAMIC	100PF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V
C202	1-162-293-31	CERAMIC	820PF	10%	50V
C203	1-162-851-11	CERAMIC	0.1uF	10%	16V
C204	1-126-233-11	ELECT	22uF	20%	50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V
C206	1-162-293-31	CERAMIC	820PF	10%	50V
C207	1-126-233-11	ELECT	22uF	20%	50V
C208	1-162-840-11	CERAMIC	0.012uF	10%	16V
C209	1-124-903-11	ELECT	1uF	20%	50V
C210	1-124-903-11	ELECT	1uF	20%	50V
C212	1-162-286-21	CERAMIC	220PF	10%	50V
C213	1-124-903-11	ELECT	1uF	20%	50V
C214	1-124-902-00	ELECT	0.47uF	20%	50V
C215	1-104-664-11	ELECT	47uF	20%	10V
C216	1-124-443-00	ELECT	100uF	20%	10V
C217	1-136-155-00	FILM	0.015uF	5%	50V
C218	1-126-927-11	ELECT	2200uF	20%	10V
C220	1-126-963-11	ELECT	4.7uF	20%	50V
C222	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C223	1-162-282-31	CERAMIC	100PF	10%	50V
C224	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C225	1-162-282-31	CERAMIC	100PF	10%	50V
C226	1-124-903-11	ELECT	1uF	20%	50V
C228	1-162-282-31	CERAMIC	100PF	10%	50V
C301	1-130-471-00	MYLAR	0.001uF	5%	50V
C302	1-130-483-00	MYLAR	0.01uF	5%	50V
C303	1-130-483-00	MYLAR	0.01uF	5%	50V
C304	1-124-443-00	ELECT	100uF	20%	10V
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V
C306	1-162-306-11	CERAMIC	0.01uF	20%	16V
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-104-666-11	ELECT	220uF	20%	10V
C309	1-162-286-21	CERAMIC	220PF	10%	50V
C310	1-104-666-11	ELECT	220uF	20%	10V
C311	1-162-282-31	CERAMIC	100PF	10%	50V
C312	1-124-903-11	ELECT	1uF	20%	50V
C313	1-162-286-21	CERAMIC	220PF	10%	50V
C314	1-162-851-11	CERAMIC	0.1uF	10%	16V
C315	1-161-020-11	CERAMIC	0.039uF	10%	16V
C316	1-124-907-11	ELECT	10uF	20%	50V
C317	1-104-666-11	ELECT	220uF	20%	10V
C318	1-126-233-11	ELECT	22uF	20%	50V
C319	1-136-161-00	FILM	0.047uF	5%	50V
C320	1-136-161-00	FILM	0.047uF	5%	50V
C321	1-136-153-00	FILM	0.01uF	5%	50V
C322	1-124-907-11	ELECT	10uF	20%	50V
C323	1-126-963-11	ELECT	4.7uF	20%	50V
C324	1-126-966-11	ELECT	33uF	20%	25V
C325	1-162-282-31	CERAMIC	100PF	10%	50V
C326	1-162-294-31	CERAMIC	0.001uF	10%	50V
C327	1-162-282-31	CERAMIC	100PF	10%	50V
C328	1-136-161-00	FILM	0.047uF	5%	50V
C329	1-136-161-00	FILM	0.047uF	5%	50V

Ref. No.	Part No.	Description			Remark
C330	1-136-153-00	FILM	0.01uF	5%	50V
C331	1-136-165-00	FILM	0.1uF	5%	50V
C332	1-124-903-11	ELECT	1uF	20%	50V
C333	1-124-443-00	ELECT	100uF	20%	10V
C334	1-124-472-11	ELECT	470uF	20%	10V
C335	1-162-306-11	CERAMIC	0.01uF	20%	16V
C336	1-104-666-11	ELECT	220uF	20%	10V
C337	1-124-903-11	ELECT	1uF	20%	50V
C338	1-162-306-11	CERAMIC	0.01uF	20%	16V
C339	1-124-443-00	ELECT	100uF	20%	10V
C340	1-162-306-11	CERAMIC	0.01uF	20%	16V
C341	1-124-472-11	ELECT	470uF	20%	10V
C342	1-104-664-11	ELECT	47uF	20%	10V
C343	1-104-666-11	ELECT	220uF	20%	10V
C344	1-162-306-11	CERAMIC	0.01uF	20%	16V
C345	1-104-664-11	ELECT	47uF	20%	10V
C346	1-162-306-11	CERAMIC	0.01uF	20%	16V
C347	1-104-666-11	ELECT	220uF	20%	10V
C349	1-162-306-11	CERAMIC	0.01uF	20%	16V
C350	1-126-233-11	ELECT	22uF	20%	50V
C351	1-126-943-11	ELECT	2200uF	20%	25V
C352	1-124-443-00	ELECT	100uF	20%	10V
C353	1-162-284-31	CERAMIC	150PF	10%	50V
C354	1-162-282-31	CERAMIC	100PF	10%	50V
C355	1-164-159-21	CERAMIC	0.1uF		50V
C356	1-162-306-11	CERAMIC	0.01uF	20%	16V
C357	1-104-664-11	ELECT	47uF	20%	16V
C359	1-161-494-00	CERAMIC	0.022uF		25V
C360	1-161-494-00	CERAMIC	0.022uF		25V
C361	1-161-494-00	CERAMIC	0.022uF		25V
C362	1-161-494-00	CERAMIC	0.022uF		25V
C363	1-164-159-21	CERAMIC	0.1uF		50V
C364	1-162-306-11	CERAMIC	0.01uF	20%	16V
C366	1-162-294-31	CERAMIC	0.001uF	10%	50V
C367	1-162-282-31	CERAMIC	100PF	10%	50V
C368	1-162-282-31	CERAMIC	100PF	10%	50V
C369	1-162-282-31	CERAMIC	100PF	10%	50V
C370	1-162-282-31	CERAMIC	100PF	10%	50V
C371	1-162-282-31	CERAMIC	100PF	10%	50V
C372	1-162-306-11	CERAMIC	0.01uF	20%	16V
C374	1-124-443-00	ELECT	100uF	20%	10V
C375	1-162-851-11	CERAMIC	0.1uF	10%	16V
C376	1-162-851-11	CERAMIC	0.1uF	10%	16V
C377	1-162-306-11	CERAMIC	0.01uF	20%	16V
C379	1-162-306-11	CERAMIC	0.01uF	20%	16V
C380	1-162-306-11	CERAMIC	0.01uF	20%	16V
C381	1-162-306-11	CERAMIC	0.01uF	20%	16V
C382	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-162-306-11	CERAMIC	0.01uF	20%	16V
C754	1-162-306-11	CERAMIC	0.01uF	20%	16V
C755	1-162-306-11	CERAMIC	0.01uF	20%	16V
C760	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C761	1-104-666-11	ELECT	220uF	20%	10V
C762	1-104-666-11	ELECT	220uF	20%	10V
C763	1-162-282-31	CERAMIC	100PF	10%	50V
C764	1-162-282-31	CERAMIC	100PF	10%	50V
C765	1-162-282-31	CERAMIC	100PF	10%	50V
C766	1-162-282-31	CERAMIC	100PF	10%	50V
C767	1-162-306-11	CERAMIC	0.01uF	20%	16V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C770	1-104-666-11	ELECT	220uF	20%	10V
C771	1-124-902-00	ELECT	0.47uF	20%	50V
C772	1-162-306-11	CERAMIC	0.01uF	20%	16V
C773	1-162-290-31	CERAMIC	470PF	10%	50V
C774	1-162-286-21	CERAMIC	220PF	10%	50V
C775	1-130-499-00	MYLAR	0.22uF	5%	50V
C776	1-162-306-11	CERAMIC	0.01uF	20%	16V
C778	1-162-306-11	CERAMIC	0.01uF	20%	16V
C779	1-162-306-11	CERAMIC	0.01uF	20%	16V
C780	1-162-306-11	CERAMIC	0.01uF	20%	16V
C781	1-162-306-11	CERAMIC	0.01uF	20%	16V
C782	1-162-292-31	CERAMIC	680PF	10%	50V
C783	1-162-284-31	CERAMIC	150PF	10%	50V
C784	1-162-199-31	CERAMIC	10PF	5%	50V
C785	1-162-199-31	CERAMIC	10PF	5%	50V
C786	1-126-963-11	ELECT	4.7uF	20%	50V
C787	1-162-284-31	CERAMIC	150PF	10%	50V
C788	1-126-963-11	ELECT	4.7uF	20%	50V
C789	1-162-292-31	CERAMIC	680PF	10%	50V
C790	1-162-306-11	CERAMIC	0.01uF	20%	16V
C791	1-104-666-11	ELECT	220uF	20%	10V
C792	1-162-306-11	CERAMIC	0.01uF	20%	16V
C793	1-162-306-11	CERAMIC	0.01uF	20%	16V
C794	1-162-306-11	CERAMIC	0.01uF	20%	16V
C796	1-162-306-11	CERAMIC	0.01uF	20%	16V
C797	1-162-306-11	CERAMIC	0.01uF	20%	16V
C801	1-124-903-11	ELECT	1uF	20%	50V
C803	1-102-516-11	CERAMIC	27PF	5%	50V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C805	1-162-306-11	CERAMIC	0.01uF	20%	16V
C806	1-102-518-11	CERAMIC	33PF	5%	50V
C807	1-102-960-00	CERAMIC	24PF	5%	50V
C808	1-102-960-00	CERAMIC	24PF	5%	50V
C809	1-162-306-11	CERAMIC	0.01uF	20%	16V
C810	1-162-306-11	CERAMIC	0.01uF	20%	16V
C811	1-162-306-11	CERAMIC	0.01uF	20%	16V
C812	1-104-664-11	ELECT	47uF	20%	10V
C813	1-164-159-21	CERAMIC	0.1uF		50V
C814	1-124-472-11	ELECT	470uF	20%	10V
C815	1-162-306-11	CERAMIC	0.01uF	20%	16V
C816	1-102-514-11	CERAMIC	22PF	5%	50V
C817	1-102-514-11	CERAMIC	22PF	5%	50V
C818	1-162-282-31	CERAMIC	100PF	10%	50V
C819	1-162-282-31	CERAMIC	100PF	10%	50V
C820	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C821	1-162-282-31	CERAMIC	100PF	10%	50V
C822	1-162-282-31	CERAMIC	100PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C826	1-162-282-31	CERAMIC	100PF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C828	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-292-31	CERAMIC	680PF	10%	50V
C830	1-162-292-31	CERAMIC	680PF	10%	50V
C831	1-162-292-31	CERAMIC	680PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C838	1-162-306-11	CERAMIC	0.01uF	20%	16V
C840	1-162-306-11	CERAMIC	0.01uF	20%	16V
C841	1-162-294-31	CERAMIC	0.001uF	10%	50V
C842	1-162-294-31	CERAMIC	0.001uF	10%	50V
C843	1-162-294-31	CERAMIC	0.001uF	10%	50V
C844	1-162-294-31	CERAMIC	0.001uF	10%	50V
C845	1-162-294-31	CERAMIC	0.001uF	10%	50V
C846	1-162-306-11	CERAMIC	0.01uF	20%	16V
C847	1-162-306-11	CERAMIC	0.01uF	20%	16V
C849	1-124-443-00	ELECT	100uF	20%	10V
C850	1-162-306-11	CERAMIC	0.01uF	20%	16V
C851	1-162-306-11	CERAMIC	0.01uF	20%	16V
C852	1-162-282-31	CERAMIC	100PF	10%	50V
C853	1-162-294-31	CERAMIC	0.001uF	10%	50V
C854	1-162-282-31	CERAMIC	100PF	10%	50V
C856	1-162-306-11	CERAMIC	0.01uF	20%	16V
C857	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

*	CNP302	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
*	CNP308	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
	CNP309	1-695-350-11	PIN, CONNECTOR (PC BOARD) 27P
	CNP310	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P
*	CNP314	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P
	CNP760	1-569-936-11	PIN, CONNECTOR (PC BOARD) 20P

< DIODE >

	D301	8-719-991-33	DIODE 1SS133T-77
	D302	8-719-991-33	DIODE 1SS133T-77
	D303	8-719-991-33	DIODE 1SS133T-77
	D304	8-719-991-33	DIODE 1SS133T-77
	D305	8-719-991-33	DIODE 1SS133T-77
	D306	8-719-991-33	DIODE 1SS133T-77
	D307	8-719-991-33	DIODE 1SS133T-77
	D308	8-719-991-33	DIODE 1SS133T-77
	D309	8-719-991-33	DIODE 1SS133T-77
	D310	8-719-991-33	DIODE 1SS133T-77
	D311	8-719-110-08	DIODE RD8.2ES-B2
	D312	8-719-109-89	DIODE RD5.6ESB2
	D313	8-719-153-69	DIODE RD7.5EB1TN
	D314	8-719-991-33	DIODE 1SS133T-77

MAIN

Ref. No.	Part No.	Description	Remark
D315	8-719-929-15	DIODE HZS9.1NB2	
D316	8-719-991-33	DIODE 1SS133T-77	
D317	8-719-991-33	DIODE 1SS133T-77	
D318	8-719-991-33	DIODE 1SS133T-77	
D319	8-719-991-33	DIODE 1SS133T-77	
D321	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	
D804	8-719-991-33	DIODE 1SS133T-77	
D805	8-719-991-33	DIODE 1SS133T-77	
D806	8-719-991-33	DIODE 1SS133T-77	
		< IC >	
IC301	8-759-457-58	IC BA3426AS	
IC302	8-759-432-41	IC BH3854AS	
IC303	8-759-426-51	IC BA5417	
IC304	8-759-095-60	IC S-81250PG	
IC704	8-752-384-13	IC CXD2589Q	
IC801	8-752-897-59	IC CXP83120A-029Q	
IC802	8-759-165-86	IC PST600I-T	
		< COIL >	
L307	1-412-848-11	INDUCTOR 22uH	
L312	1-410-509-11	INDUCTOR 10uH	
L313	1-410-509-11	INDUCTOR 10uH	
L314	1-410-509-11	INDUCTOR 10uH	
L315	1-410-509-11	INDUCTOR 10uH	
L316	1-410-509-11	INDUCTOR 10uH	
L317	1-410-509-11	INDUCTOR 10uH	
L801	1-410-517-11	INDUCTOR 47uH	
L802	1-414-146-31	INDUCTOR 2.2uH	
L803	1-410-521-11	INDUCTOR 100uH	
L804	1-410-509-11	INDUCTOR 10uH	
L806	1-410-521-11	INDUCTOR 100uH	
L807	1-410-509-11	INDUCTOR 10uH	
L808	1-410-509-11	INDUCTOR 10uH	
L809	1-410-509-11	INDUCTOR 10uH	
L810	1-410-509-11	INDUCTOR 10uH	
L812	1-410-509-11	INDUCTOR 10uH	
L813	1-410-509-11	INDUCTOR 10uH	
L815	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q201	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q301	8-729-036-58	TRANSISTOR KRC102M-AT	
Q302	8-729-036-58	TRANSISTOR KRC102M-AT	
Q304	8-729-037-29	TRANSISTOR KRA102M	
Q305	8-729-037-29	TRANSISTOR KRA102M	
Q306	8-729-036-57	TRANSISTOR KRC101M-AT	
Q307	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q308	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q309	8-729-037-17	TRANSISTOR KRA104M-AT	
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q311	8-729-209-15	TRANSISTOR 2SD2012	
Q312	8-729-801-84	TRANSISTOR 2SB1013-4	
Q313	8-729-036-58	TRANSISTOR KRC102M-AT	
Q314	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q315	8-729-209-15	TRANSISTOR 2SD2012	
Q316	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q317	8-729-036-77	TRANSISTOR KRC107M	
Q318	8-729-209-15	TRANSISTOR 2SD2012	
Q319	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q320	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q321	8-729-011-94	FET 2SK105ATP-3040	
Q322	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q323	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q325	8-729-037-17	TRANSISTOR KRA104M-AT	
Q326	8-729-037-17	TRANSISTOR KRA104M-AT	
Q801	8-729-922-66	TRANSISTOR 2SC2410SN	
Q802	8-729-922-66	TRANSISTOR 2SC2410SN	
Q805	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q806	8-729-036-86	TRANSISTOR KTC3203Y-AT	
		< RESISTOR >	
R101	1-247-852-11	CARBON 7.5K 5% 1/4W	
R103	1-247-815-11	CARBON 220 5% 1/4W	
R104	1-247-815-11	CARBON 220 5% 1/4W	
R105	1-247-807-11	CARBON 100 5% 1/4W	
R106	1-249-417-11	CARBON 1K 5% 1/4W	
R107	1-249-427-11	CARBON 6.8K 5% 1/4W	
R108	1-249-421-11	CARBON 2.2K 5% 1/4W	
R109	1-249-417-11	CARBON 1K 5% 1/4W	
R110	1-247-816-11	CARBON 240 5% 1/4W	
⚠R111	1-202-958-11	FUSIBLE 2.2 5% 1/2W	F
R113	1-249-429-11	CARBON 10K 5% 1/4W	
R114	1-247-863-11	CARBON 22K 5% 1/4W	
R201	1-247-852-11	CARBON 7.5K 5% 1/4W	
R203	1-247-815-11	CARBON 220 5% 1/4W	
R204	1-247-815-11	CARBON 220 5% 1/4W	
R205	1-247-807-11	CARBON 100 5% 1/4W	
R206	1-249-417-11	CARBON 1K 5% 1/4W	
R207	1-249-427-11	CARBON 6.8K 5% 1/4W	
R208	1-249-421-11	CARBON 2.2K 5% 1/4W	
R209	1-249-417-11	CARBON 1K 5% 1/4W	
R210	1-247-816-11	CARBON 240 5% 1/4W	
⚠R211	1-202-958-11	FUSIBLE 2.2 5% 1/2W	F
R213	1-249-429-11	CARBON 10K 5% 1/4W	
R214	1-247-863-11	CARBON 22K 5% 1/4W	
R301	1-249-429-11	CARBON 10K 5% 1/4W	
R302	1-247-895-11	CARBON 470K 5% 1/4W	
R304	1-249-417-11	CARBON 1K 5% 1/4W	
R305	1-249-414-11	CARBON 560 5% 1/4W	
R306	1-249-417-11	CARBON 1K 5% 1/4W	
R307	1-249-417-11	CARBON 1K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R308	1-249-411-11	CARBON	330	5%	1/4W
R309	1-249-427-11	CARBON	6.8K	5%	1/4W
R310	1-249-417-11	CARBON	1K	5%	1/4W
R311	1-249-427-11	CARBON	6.8K	5%	1/4W
R313	1-247-863-11	CARBON	22K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-249-429-11	CARBON	10K	5%	1/4W
R317	1-247-863-11	CARBON	22K	5%	1/4W
R318	1-249-417-11	CARBON	1K	5%	1/4W
R319	1-249-437-11	CARBON	47K	5%	1/4W
R320	1-247-903-00	CARBON	1M	5%	1/4W
R321	1-247-807-11	CARBON	100	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-247-903-00	CARBON	1M	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-247-843-11	CARBON	3.3K	5%	1/4W
R327	1-247-895-11	CARBON	470K	5%	1/4W
R328	1-249-417-11	CARBON	1K	5%	1/4W
R329	1-249-419-11	CARBON	1.5K	5%	1/4W
R330	1-249-407-11	CARBON	150	5%	1/4W
R331	1-249-437-11	CARBON	47K	5%	1/4W
R332	1-249-407-11	CARBON	150	5%	1/4W
R333	1-249-417-11	CARBON	1K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-247-815-11	CARBON	220	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W
R338	1-249-407-11	CARBON	150	5%	1/4W
R339	1-247-807-11	CARBON	100	5%	1/4W
R340	1-249-429-11	CARBON	10K	5%	1/4W
R341	1-249-425-11	CARBON	4.7K	5%	1/4W
R344	1-249-441-11	CARBON	100K	5%	1/4W
R345	1-249-415-11	CARBON	680	5%	1/4W
R346	1-247-843-11	CARBON	3.3K	5%	1/4W
R347	1-249-393-11	CARBON	10	5%	1/4W
R348	1-249-437-11	CARBON	47K	5%	1/4W
R349	1-249-425-11	CARBON	4.7K	5%	1/4W
R350	1-249-425-11	CARBON	4.7K	5%	1/4W
R353	1-249-417-11	CARBON	1K	5%	1/4W
R354	1-249-425-11	CARBON	4.7K	5%	1/4W
R355	1-247-863-11	CARBON	22K	5%	1/4W
R357	1-249-437-11	CARBON	47K	5%	1/4W
R358	1-249-437-11	CARBON	47K	5%	1/4W
R359	1-249-429-11	CARBON	10K	5%	1/4W
R360	1-249-425-11	CARBON	4.7K	5%	1/4W
R361	1-249-425-11	CARBON	4.7K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R366	1-249-401-11	CARBON	47	5%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-429-11	CARBON	10K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-249-429-11	CARBON	10K	5%	1/4W
R424	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-429-11	CARBON	10K	5%	1/4W
R427	1-249-429-11	CARBON	10K	5%	1/4W
R433	1-249-425-11	CARBON	4.7K	5%	1/4W
R434	1-249-425-11	CARBON	4.7K	5%	1/4W
R435	1-249-425-11	CARBON	4.7K	5%	1/4W
R744	1-249-411-11	CARBON	330	5%	1/4W
R745	1-249-417-11	CARBON	1K	5%	1/4W
R746	1-249-417-11	CARBON	1K	5%	1/4W
R747	1-249-417-11	CARBON	1K	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W
R761	1-249-437-11	CARBON	47K	5%	1/4W
R762	1-247-843-11	CARBON	3.3K	5%	1/4W
R763	1-249-417-11	CARBON	1K	5%	1/4W
R764	1-249-429-11	CARBON	10K	5%	1/4W
R765	1-247-903-00	CARBON	1M	5%	1/4W
R766	1-249-429-11	CARBON	10K	5%	1/4W
R767	1-247-887-00	CARBON	220K	5%	1/4W
R768	1-249-430-11	CARBON	12K	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W
R770	1-249-430-11	CARBON	12K	5%	1/4W
R771	1-249-425-11	CARBON	4.7K	5%	1/4W
R772	1-249-430-11	CARBON	12K	5%	1/4W
R773	1-249-425-11	CARBON	4.7K	5%	1/4W
R774	1-249-430-11	CARBON	12K	5%	1/4W
R775	1-249-430-11	CARBON	12K	5%	1/4W
R776	1-249-437-11	CARBON	47K	5%	1/4W
R777	1-247-807-11	CARBON	100	5%	1/4W
R778	1-247-807-11	CARBON	100	5%	1/4W
R779	1-247-807-11	CARBON	100	5%	1/4W
R785	1-249-417-11	CARBON	1K	5%	1/4W
R786	1-247-807-11	CARBON	100	5%	1/4W

MAIN **POWER**

Ref. No.	Part No.	Description			Remark
R790	1-249-425-11	CARBON	4.7K	5%	1/4W
R791	1-249-425-11	CARBON	4.7K	5%	1/4W
R792	1-249-417-11	CARBON	1K	5%	1/4W
R793	1-249-417-11	CARBON	1K	5%	1/4W
R794	1-249-417-11	CARBON	1K	5%	1/4W
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-425-11	CARBON	4.7K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-249-425-11	CARBON	4.7K	5%	1/4W
R806	1-247-863-11	CARBON	22K	5%	1/4W (EE)
R806	1-249-427-11	CARBON	6.8K	5%	1/4W (UK,G,IT)
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-413-11	CARBON	470	5%	1/4W
R811	1-249-421-11	CARBON	2.2K	5%	1/4W
R812	1-249-421-11	CARBON	2.2K	5%	1/4W
R813	1-249-421-11	CARBON	2.2K	5%	1/4W
R814	1-249-417-11	CARBON	1K	5%	1/4W
R815	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-249-417-11	CARBON	1K	5%	1/4W
R817	1-249-417-11	CARBON	1K	5%	1/4W
R818	1-249-439-11	CARBON	68K	5%	1/4W
R819	1-249-439-11	CARBON	68K	5%	1/4W
R820	1-249-439-11	CARBON	68K	5%	1/4W
R821	1-247-881-00	CARBON	120K	5%	1/4W
R822	1-249-421-11	CARBON	2.2K	5%	1/4W
R823	1-249-425-11	CARBON	4.7K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W
R825	1-249-425-11	CARBON	4.7K	5%	1/4W
R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R827	1-249-429-11	CARBON	10K	5%	1/4W
R828	1-249-425-11	CARBON	4.7K	5%	1/4W
R829	1-249-417-11	CARBON	1K	5%	1/4W
R830	1-249-425-11	CARBON	4.7K	5%	1/4W
R831	1-249-417-11	CARBON	1K	5%	1/4W
R832	1-249-425-11	CARBON	4.7K	5%	1/4W
R833	1-249-417-11	CARBON	1K	5%	1/4W
R834	1-249-417-11	CARBON	1K	5%	1/4W
R835	1-249-417-11	CARBON	1K	5%	1/4W
R836	1-249-417-11	CARBON	1K	5%	1/4W
R837	1-249-417-11	CARBON	1K	5%	1/4W
R838	1-249-417-11	CARBON	1K	5%	1/4W
R839	1-249-417-11	CARBON	1K	5%	1/4W
R840	1-249-417-11	CARBON	1K	5%	1/4W
R841	1-249-425-11	CARBON	4.7K	5%	1/4W
R842	1-249-425-11	CARBON	4.7K	5%	1/4W
R843	1-249-425-11	CARBON	4.7K	5%	1/4W
R844	1-249-425-11	CARBON	4.7K	5%	1/4W
R845	1-249-417-11	CARBON	1K	5%	1/4W
R846	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-425-11	CARBON	4.7K	5%	1/4W
R848	1-249-441-11	CARBON	100K	5%	1/4W
R849	1-249-441-11	CARBON	100K	5%	1/4W
R850	1-249-425-11	CARBON	4.7K	5%	1/4W
R851	1-249-425-11	CARBON	4.7K	5%	1/4W
R852	1-249-417-11	CARBON	1K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W
R854	1-249-425-11	CARBON	4.7K	5%	1/4W
R855	1-249-425-11	CARBON	4.7K	5%	1/4W
R856	1-249-425-11	CARBON	4.7K	5%	1/4W
R857	1-249-437-11	CARBON	47K	5%	1/4W
R858	1-249-441-11	CARBON	100K	5%	1/4W
R859	1-249-429-11	CARBON	10K	5%	1/4W
R860	1-249-441-11	CARBON	100K	5%	1/4W
R861	1-249-429-11	CARBON	10K	5%	1/4W
R862	1-249-425-11	CARBON	4.7K	5%	1/4W
R863	1-249-421-11	CARBON	2.2K	5%	1/4W
R864	1-249-441-11	CARBON	100K	5%	1/4W
R865	1-249-425-11	CARBON	4.7K	5%	1/4W
R866	1-247-895-11	CARBON	470	5%	1/4W
R868	1-249-425-11	CARBON	4.7K	5%	1/4W
R869	1-247-895-11	CARBON	470	5%	1/4W
R871	1-247-815-11	CARBON	220	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-230-495-11	RES, ADJ, CARBON 2.2K			
		< TRANSFORMER >			
T301	1-433-346-11	TRANSFORMER, BIAS OSCILLATOR			
		< VIBRATOR >			
X701	1-579-345-11	VIBRATOR, CERAMIC (16.9344MHz)			
X801	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
X802	1-760-105-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-667-502-11	POWER BOARD **********			
	1-533-233-21	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-161-055-00	CERAMIC	0.022uF	10%	50V
C902	1-161-055-00	CERAMIC	0.022uF	10%	50V
C903	1-161-055-00	CERAMIC	0.022uF	10%	50V
C904	1-161-055-00	CERAMIC	0.022uF	10%	50V
C905	1-124-636-00	ELECT	3300uF	20%	25V
		< CONNECTOR >			
* CNP901	1-564-507-11	PLUG, CONNECTOR 4P			
CNP902	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D901	8-719-046-47	DIODE 1N5401TM			

Ref. No.	Part No.	Description			Remark
D902	8-719-046-47	DIODE 1N5401TM			
D903	8-719-046-47	DIODE 1N5401TM			
D904	8-719-046-47	DIODE 1N5401TM			
D906	8-719-991-33	DIODE 1SS133T-77			
D907	8-719-991-33	DIODE 1SS133T-77			
D908	8-719-153-42	DIODE RD2.7EB2TN			
D910	8-719-991-33	DIODE 1SS133T-77			
		< FUSE >			
⚠F901	1-532-464-31	FUSE, TIME-LAG (T2.5AL/250V)			
		< AC INLET >			
⚠J901	1-526-838-11	INLET, AC 2P (~ AC IN)			
		< LINE FILTER >			
⚠LF901	1-424-150-11	TRANSFORMER, LINE FILTER			
		< TRANSFORMER >			
⚠T901	1-431-621-11	TRANSFORMER, POWER			
**********					
*	1-668-024-11	RECORD/PLAYBACK SWITCH BOARD			
		**********			
		< CAPACITOR >			
C378	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNP301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< RESISTOR >			
R102	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S301	1-692-167-11	SWITCH, SLIDE (REC/PB)			
**********					
*	A-3321-226-A	TUNER BOARD, COMPLETE (UK,G,IT)			
*	A-3321-413-A	TUNER BOARD, COMPLETE (EE)			
		**********			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-162-306-11	CERAMIC	0.01uF	20%	16V
C3	1-102-516-11	CERAMIC	27PF	5%	50V
C4	1-162-203-31	CERAMIC	15PF	5%	50V
C5	1-161-494-00	CERAMIC	0.022uF		25V
C6	1-161-494-00	CERAMIC	0.022uF		25V
C7	1-161-020-11	CERAMIC	0.039uF	10%	16V
C8	1-162-195-31	CERAMIC	4.7PF	10%	50V (UK,G,IT)

Ref. No.	Part No.	Description			Remark
C9	1-102-973-00	CERAMIC	100PF	5%	50V
C10	1-102-823-11	CERAMIC	430PF	5%	50V
C11	1-162-199-31	CERAMIC	10PF	5%	50V
C12	1-107-734-11	FILM	360PF	5%	100V
C13	1-162-282-31	CERAMIC	100PF	10%	50V (EE)
C14	1-164-159-21	CERAMIC	0.1uF		50V
C15	1-162-306-11	CERAMIC	0.01uF	20%	16V
C16	1-126-963-11	ELECT	4.7uF	20%	50V
C17	1-162-288-31	CERAMIC	330PF	10%	50V
C18	1-162-306-11	CERAMIC	0.01uF	20%	16V
C19	1-124-907-11	ELECT	10uF	20%	50V
C20	1-162-849-11	CERAMIC	0.068uF	10%	16V
C21	1-162-850-11	CERAMIC	0.082uF	10%	16V
C22	1-162-850-11	CERAMIC	0.082uF	10%	16V
C23	1-161-053-00	CERAMIC	0.015uF	10%	50V
C24	1-161-053-00	CERAMIC	0.015uF	10%	50V
C25	1-162-306-11	CERAMIC	0.01uF	20%	16V
C26	1-162-306-11	CERAMIC	0.01uF	20%	16V
C27	1-124-443-00	ELECT	100uF	20%	10V
C28	1-102-518-11	CERAMIC	33PF	5%	50V
C29	1-162-199-31	CERAMIC	10PF	5%	50V
C30	1-162-306-11	CERAMIC	0.01uF	20%	16V
C31	1-162-306-11	CERAMIC	0.01uF	20%	16V
C32	1-162-306-11	CERAMIC	0.01uF	20%	16V
C33	1-162-306-11	CERAMIC	0.01uF	20%	16V
C34	1-162-294-31	CERAMIC	0.001uF	10%	50V
C35	1-162-294-31	CERAMIC	0.001uF	10%	50V
C36	1-162-294-31	CERAMIC	0.001uF	10%	50V
C37	1-124-907-11	ELECT	10uF	20%	50V
C38	1-162-306-11	CERAMIC	0.01uF	20%	16V
C39	1-124-907-11	ELECT	10uF	20%	50V
C40	1-162-306-11	CERAMIC	0.01uF	20%	16V
C41	1-136-177-00	FILM	1uF	5%	50V
C42	1-130-483-00	MYLAR	0.01uF	5%	50V
C43	1-162-290-31	CERAMIC	470PF	10%	50V (EE)
C43	1-162-294-31	CERAMIC	0.001uF	10%	50V (UK,G,IT)
C44	1-124-907-11	ELECT	10uF	20%	50V
C45	1-124-907-11	ELECT	10uF	20%	50V
C46	1-124-907-11	ELECT	10uF	20%	50V
C47	1-162-282-31	CERAMIC	100PF	10%	50V
C48	1-162-282-31	CERAMIC	100PF	10%	50V
C49	1-162-294-31	CERAMIC	0.001uF	10%	50V
C50	1-162-282-31	CERAMIC	100PF	10%	50V
C51	1-162-282-31	CERAMIC	100PF	10%	50V
C52	1-162-306-11	CERAMIC	0.01uF	20%	16V
C53	1-162-306-11	CERAMIC	0.01uF	20%	16V
C54	1-162-294-31	CERAMIC	0.001uF	10%	50V
C55	1-162-306-11	CERAMIC	0.01uF	20%	16V
C56	1-162-306-11	CERAMIC	0.01uF	20%	16V
C57	1-162-195-31	CERAMIC	4.7PF	10%	50V

The components identified by mark ⚠or dotted line with mark. ⚠are critical for safety. Replace only with part number specified.

TUNER

Ref. No.	Part No.	Description			Remark
C58	1-162-282-31	CERAMIC	100PF	10%	50V
C59	1-161-494-00	CERAMIC	0.022uF		25V
C60	1-162-282-31	CERAMIC	100PF	10%	50V
C61	1-162-306-11	CERAMIC	0.01uF	20%	16V
C62	1-162-294-31	CERAMIC	0.001uF	10%	50V
C63	1-162-282-31	CERAMIC	100PF	10%	50V
C64	1-162-294-31	CERAMIC	0.001uF	10%	50V
C65	1-162-282-31	CERAMIC	100PF	10%	50V
C66	1-162-294-31	CERAMIC	0.001uF	10%	50V
C67	1-162-195-31	CERAMIC	4.7PF	10%	50V (EE)
C67	1-162-197-31	CERAMIC	6.8PF	10%	50V (UK,G,IT)
C68	1-162-306-11	CERAMIC	0.01uF	20%	16V
C69	1-162-215-31	CERAMIC	47PF	5%	50V
C71	1-162-282-31	CERAMIC	100PF	10%	50V
C72	1-162-282-31	CERAMIC	100PF	10%	50V
C73	1-162-282-31	CERAMIC	100PF	10%	50V (EE)
C74	1-162-282-31	CERAMIC	100PF	10%	50V (EE)
		< FILTER >			
CF1	1-760-468-11	FILTER, CERAMIC			
CF2	1-760-468-11	FILTER, CERAMIC			
CF3	1-760-468-11	FILTER, CERAMIC			
CF4	1-767-096-11	VIBRATOR, CERAMIC			
		< ENCAPSULATED COMPONENT >			
CFT1	1-233-885-11	ENCAPSULATED COMPONENT			
		< CONNECTOR >			
CN1	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P			
* CN2	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< TRIMMER >			
CT1	1-141-227-00	CAP, TRIMMER 20PF (UK,G,IT)			
CT2	1-141-411-11	CAP, ADJ 20PF			
CT3	1-141-459-11	CAP, TRIMMER (SEAL TYPE) 45PF			
CT4	1-141-410-11	CAP, ADJ 10PF			
CT5	1-141-459-11	CAP, TRIMMER (SEAL TYPE) 45PF			
		< DIODE >			
D1	8-719-991-33	DIODE 1SS133T-77			
D2	8-719-991-33	DIODE 1SS133T-77			
D3	8-719-050-72	DIODE KV1370NT			
D4	8-719-050-72	DIODE KV1370NT			
D5	8-719-050-69	DIODE KV1520N			
		< FUSE HOLDER >			
FH1	1-533-233-21	HOLDER, FUSE			

Ref. No.	Part No.	Description			Remark
		< BPF >			
FL1	1-234-024-11	FILTER, BAND PASS (UK,G,IT)			
FL1	1-239-813-21	FILTER, BAND PASS (EE)			
		< IC >			
IC1	8-759-386-02	IC TA2008AN			
IC2	8-759-290-61	IC BU2615S			
		< COIL >			
L1	1-406-995-41	COIL, FM OSC (EE)			
L1	1-409-905-31	COIL, FM RF (UK,G,IT)			
L2	1-406-994-41	COIL, FM RF (EE)			
L2	1-409-904-31	COIL, FM OSC (UK,G,IT)			
L3	1-501-924-11	ANTENNA, FERRITE-ROD (MW/LW)			
L4	1-411-199-31	COIL, MW/LW OSC			
L5	1-410-517-11	INDUCTOR	47uH		
L6	1-410-336-11	INDUCTOR	220uH		
L8	1-410-324-11	INDUCTOR	4.7uH		
		< TRANSISTOR >			
Q1	8-729-119-32	FET 2SK193			
Q2	8-729-922-66	TRANSISTOR 2SC2410SN			
Q3	8-729-922-66	TRANSISTOR 2SC2410SN			
Q4	8-729-905-50	TRANSISTOR DTC343TS			
Q5	8-729-178-62	TRANSISTOR 2SC2786-L			
Q6	8-729-922-66	TRANSISTOR 2SC2410SN			
Q9	8-729-036-77	TRANSISTOR KRC107M			
Q10	8-729-036-77	TRANSISTOR KRC107M			
Q11	8-729-036-77	TRANSISTOR KRC107M			
Q12	8-729-036-77	TRANSISTOR KRC107M			
Q13	8-729-012-83	FET 2SK679A			
Q14	8-729-106-07	FET 2SK514-H			
Q15	8-729-036-77	TRANSISTOR KRC107M			
Q16	8-729-036-77	TRANSISTOR KRC107M			
Q17	8-729-037-34	TRANSISTOR KRA107M			
Q18	8-729-037-34	TRANSISTOR KRA107M			
Q19	8-729-036-58	TRANSISTOR KRC102M-AT			
Q21	8-729-037-29	TRANSISTOR KRA102M			
Q22	8-729-037-29	TRANSISTOR KRA102M			
Q23	8-729-922-66	TRANSISTOR 2SC2410SN			
		< RESISTOR >			
R1	1-247-887-00	CARBON	220K	5%	1/4W
R2	1-249-441-11	CARBON	100K	5%	1/4W
R3	1-249-431-11	CARBON	15K	5%	1/4W
R4	1-249-413-11	CARBON	470	5%	1/4W
R5	1-249-417-11	CARBON	1K	5%	1/4W
R6	1-249-425-11	CARBON	4.7K	5%	1/4W
R7	1-249-425-11	CARBON	4.7K	5%	1/4W
R8	1-249-407-11	CARBON	150	5%	1/4W
R9	1-249-425-11	CARBON	4.7K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R11	1-247-887-00	CARBON	220K	5%	1/4W
R12	1-249-425-11	CARBON	4.7K	5%	1/4W
R13	1-247-815-11	CARBON	220	5%	1/4W
R14	1-249-425-11	CARBON	4.7K	5%	1/4W
R15	1-247-887-00	CARBON	220K	5%	1/4W
R16	1-249-426-11	CARBON	5.6K	5%	1/4W (UK,G,IT)
R19	1-249-421-11	CARBON	2.2K	5%	1/4W
R20	1-247-863-11	CARBON	22K	5%	1/4W
R21	1-247-791-11	CARBON	22	5%	1/4W
R22	1-249-429-11	CARBON	10K	5%	1/4W
R23	1-249-429-11	CARBON	10K	5%	1/4W
R24	1-249-429-11	CARBON	10K	5%	1/4W
R25	1-249-429-11	CARBON	10K	5%	1/4W
R26	1-249-417-11	CARBON	1K	5%	1/4W
R27	1-249-417-11	CARBON	1K	5%	1/4W
R28	1-249-429-11	CARBON	10K	5%	1/4W
R29	1-249-429-11	CARBON	10K	5%	1/4W
R33	1-247-815-11	CARBON	220	5%	1/4W (UK,G,IT)
R33	1-249-410-11	CARBON	270	5%	1/4W (EE)
R34	1-249-415-11	CARBON	680	5%	1/4W
R35	1-249-412-11	CARBON	390	5%	1/4W
R36	1-249-437-11	CARBON	47K	5%	1/4W
R37	1-249-417-11	CARBON	1K	5%	1/4W
R38	1-249-427-11	CARBON	6.8K	5%	1/4W
R39	1-249-417-11	CARBON	1K	5%	1/4W
R40	1-249-421-11	CARBON	2.2K	5%	1/4W
R41	1-249-417-11	CARBON	1K	5%	1/4W
R42	1-249-437-11	CARBON	47K	5%	1/4W
R43	1-249-437-11	CARBON	47K	5%	1/4W
R44	1-249-425-11	CARBON	4.7K	5%	1/4W
R45	1-249-429-11	CARBON	10K	5%	1/4W
R46	1-249-429-11	CARBON	10K	5%	1/4W
R47	1-247-863-11	CARBON	22K	5%	1/4W
R48	1-247-863-11	CARBON	22K	5%	1/4W
R49	1-249-421-11	CARBON	2.2K	5%	1/4W
R50	1-249-417-11	CARBON	1K	5%	1/4W
R51	1-249-441-11	CARBON	100K	5%	1/4W
R52	1-249-441-11	CARBON	100K	5%	1/4W
R53	1-249-441-11	CARBON	100K	5%	1/4W
R54	1-249-413-11	CARBON	470	5%	1/4W
R55	1-249-437-11	CARBON	47K	5%	1/4W
R56	1-249-411-11	CARBON	330	5%	1/4W
R57	1-247-791-11	CARBON	22	5%	1/4W
R58	1-247-883-00	CARBON	150K	5%	1/4W
R59	1-249-421-11	CARBON	2.2K	5%	1/4W
R60	1-249-407-11	CARBON	150	5%	1/4W
		< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)			

****

Ref. No.	Part No.	Description			Remark
		MISCELLANEOUS			
		**********			
* 6	1-668-026-11	H/P RETAINER BOARD			
⚠8	1-696-820-21	CORD, POWER			
* 54	1-668-025-11	TUNER STOPPER BOARD			
109	1-791-648-11	CABLE, FLAT (27 CORE)			
123	1-791-643-11	CABLE, FLAT (13 CORE)			
351	1-452-493-21	MAGNET			
366	1-791-641-11	CABLE, FLAT (16 CORE)			
367	1-791-647-11	CABLE, FLAT (20 CORE)			
ANT1	1-501-918-21	ANTENNA, TELESCOPIC			
C601	1-131-381-00	TANTALUM	47uF	10% 10V	
C777	1-136-165-00	FILM	0.1uF	5% 50V	
⚠F901	1-532-464-31	FUSE, TIME-LAG (T2.5AL/250V)			
HE301	1-500-139-11	HEAD, ERASE (DECK B)			
HP301	1-500-138-11	HEAD, PLAYBACK (DECK A)			
HRP301	1-500-138-11	HEAD, RECORD/PLAYBACK (DECK B)			
M601	X-3369-087-1	MOTOR (CAPSTAN/REEL)			
M701	X-2625-769-1	MOTOR GEAR ASSY (SLED)			
M702	X-2625-770-1	MOTOR ASSY, SPINDLE			
M703	X-2625-878-1	MOTOR ASSY, LOADING			
S601	1-771-134-11	SWITCH, REC (HIGH SPEED DUBBING)			(DECK A)
S602	1-771-135-11	SWITCH, LEAF (MD POWER) (DECK A)			
S603	1-762-023-11	SWITCH, LEAF (MD PLAY) (DECK A)			
S604	1-762-023-11	SWITCH, LEAF (MD PLAY) (DECK B)			
S605	1-771-135-11	SWITCH, LEAF (MD POWER) (DECK B)			
SP901	1-505-608-11	SPEAKER (8cm) (L-CH)			
SP902	1-505-608-11	SPEAKER (8cm) (R-CH)			
⚠T901	1-435-078-11	TRANSFORMER, POWER			

****

		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
	3-862-171-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	(AEP,UK,EE)
	3-862-171-21	MANUAL, INSTRUCTION (FRENCH,GERMAN)	(AEP)
	3-862-171-31	MANUAL, INSTRUCTION (DUTCH,PORTUGUESE)	(AEP)
	3-862-171-41	MANUAL, INSTRUCTION (SWEDISH,FINNISH)	(AEP)
	3-862-171-51	MANUAL, INSTRUCTION (ITALIAN) (IT)	
	3-862-171-61	MANUAL, INSTRUCTION (RUSSIAN) (EE)	
	4-991-047-01	LID, BATTERY CASE (for REMOTE COMMANDER)	
	8-917-632-90	REMOTE COMMANDER (RMT-CW57AD)	(AEP,UK,IT)
	8-917-633-90	REMOTE COMMANDER (RMT-CW57A) (EE)	

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-09	SCREW +B 3X8	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#3	7-685-233-19	SCREW +KTP 2.6X6 TYPE2 NON-SLIT	
#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#5	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#6	7-621-283-00	SCREW +P 2X5	
#7	7-621-775-10	SCREW +B 2.6X4	
#8	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
#9	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

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(Shibaura)

CFD-W57L

SONY

AEP Model
UK Model

SERVICE MANUAL

Ver 1.1 1999. 10

SUPPLEMENT-1

File this supplement with the service manual.

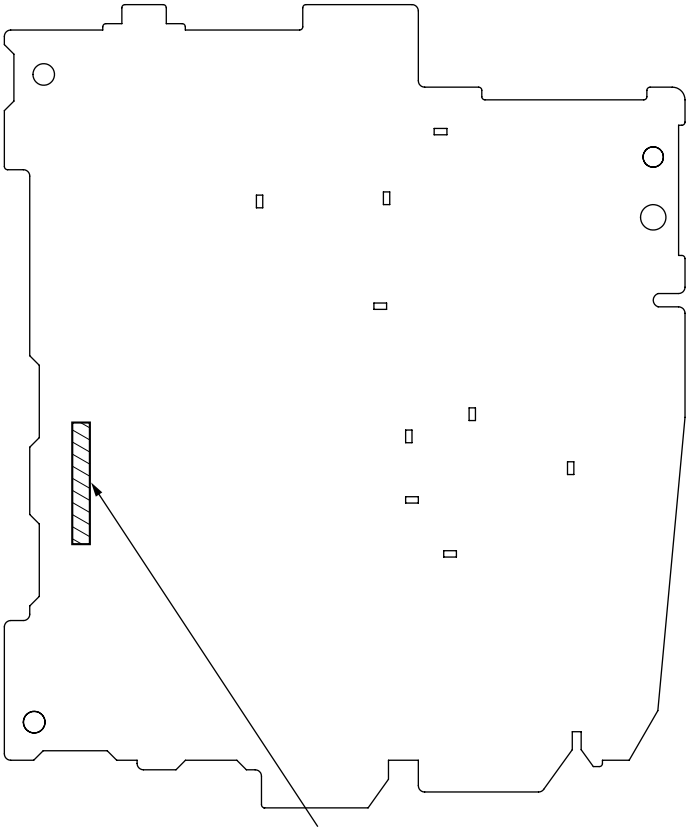
Subject : Change of Boards

(ECN-RCA00409)

Printed wiring board and schematic diagram of new type, and changed parts list are described in this Supplement-1.
Refer to original service manual (9-923-385-11) previously issued for the other information.
When performing service and inspection, check the suffix of the part number of the main boards.

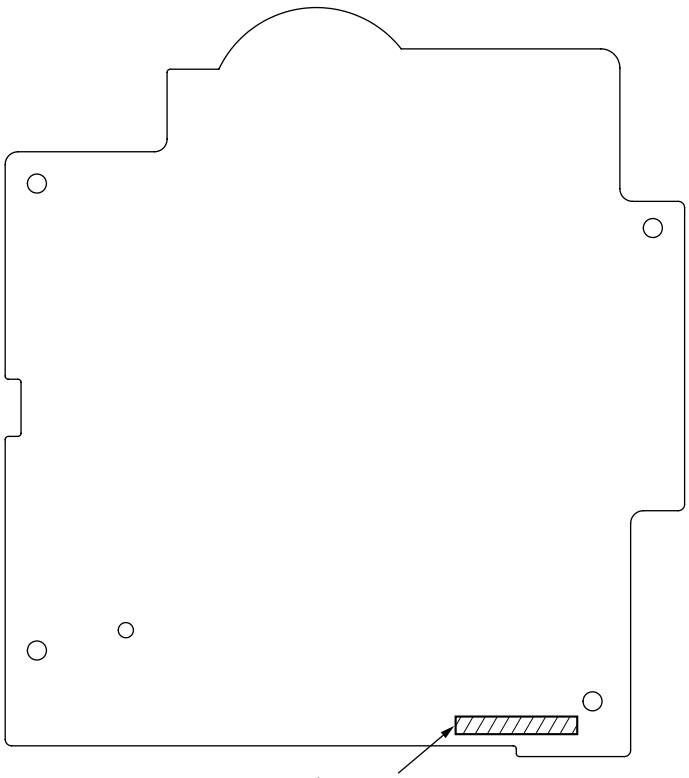
Refer to the service manual for a board with a suffix number of -14 when reparing a board with a suffix number of -12 or -13 for the following boards:
TUNER, MAIN, LAMP, RECORD/PLAYBACK SWITCH, HEADPHONE and POWER boards.

– TUNER BOARD (COMPONENT SIDE) –



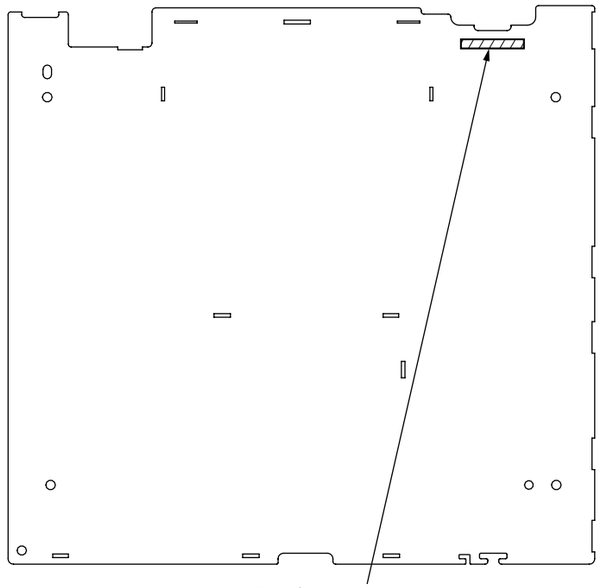
TUNER Board Part No.
Former type : 1-667-503-11
New type : 1-667-503-14

– CD BOARD (COMPONENT SIDE) –



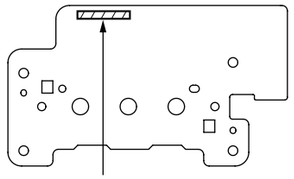
CD Board Part No.
Former type : 1-667-507-11
New type : 1-667-507-12

– MAIN BOARD (COMPONENT SIDE) –



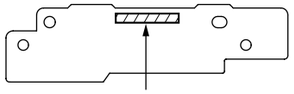
MAIN Board Part No.
Former type : 1-667-498-11
New type : 1-667-498-14

– LCD BOARD (COMPONENT SIDE) –



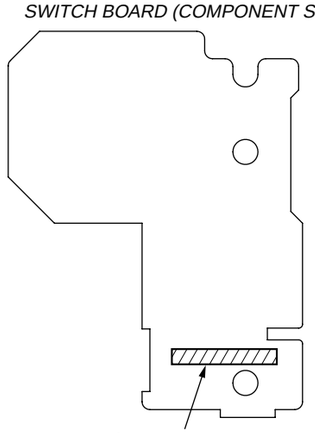
LCD Board Part No.
Former type : 1-667-506-11
New type : 1-667-506-12

– LAMP BOARD (COMPONENT SIDE) –



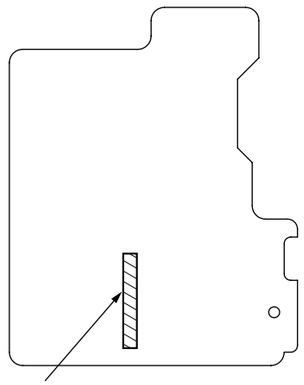
LAMP Board Part No.
Former type : 1-667-501-11
New type : 1-667-501-14

– RECORD/PLAYBACK SWITCH BOARD (COMPONENT SIDE) –



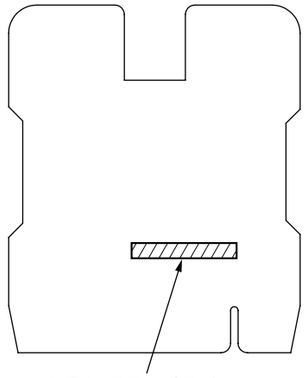
RECORD/PLAYBACK
SWITCH Board Part No.
Former type : 1-668-024-11
New type : 1-668-024-14

– HEADPHONE BOARD (COMPONENT SIDE) –



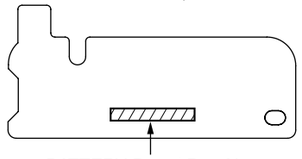
HEADPHONE Board Part No.
Former type : 1-667-505-11
New type : 1-667-505-14

– BACK UP BOARD (COMPONENT SIDE) –



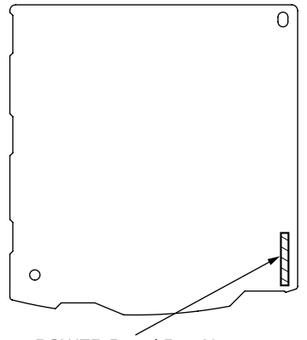
BACK UP Board Part No.
Former type : 1-667-500-11
New type : 1-667-500-12

– BATTERY BOARD (COMPONENT SIDE) –



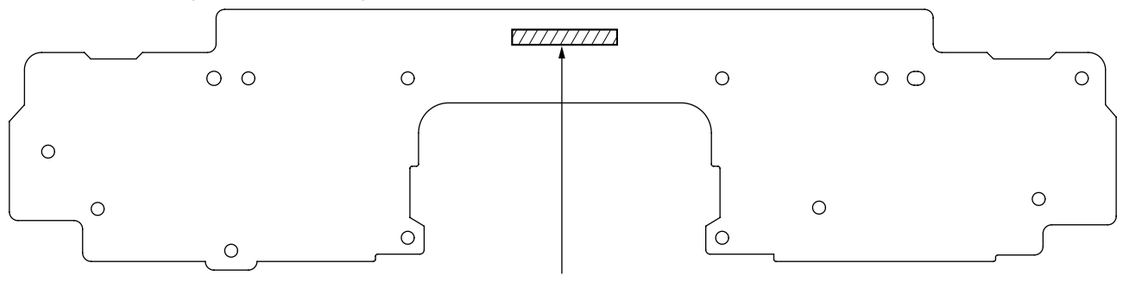
BATTERY Board Part No.
Former type : 1-667-499-11
New type : 1-667-499-12

– POWER BOARD (COMPONENT SIDE) –



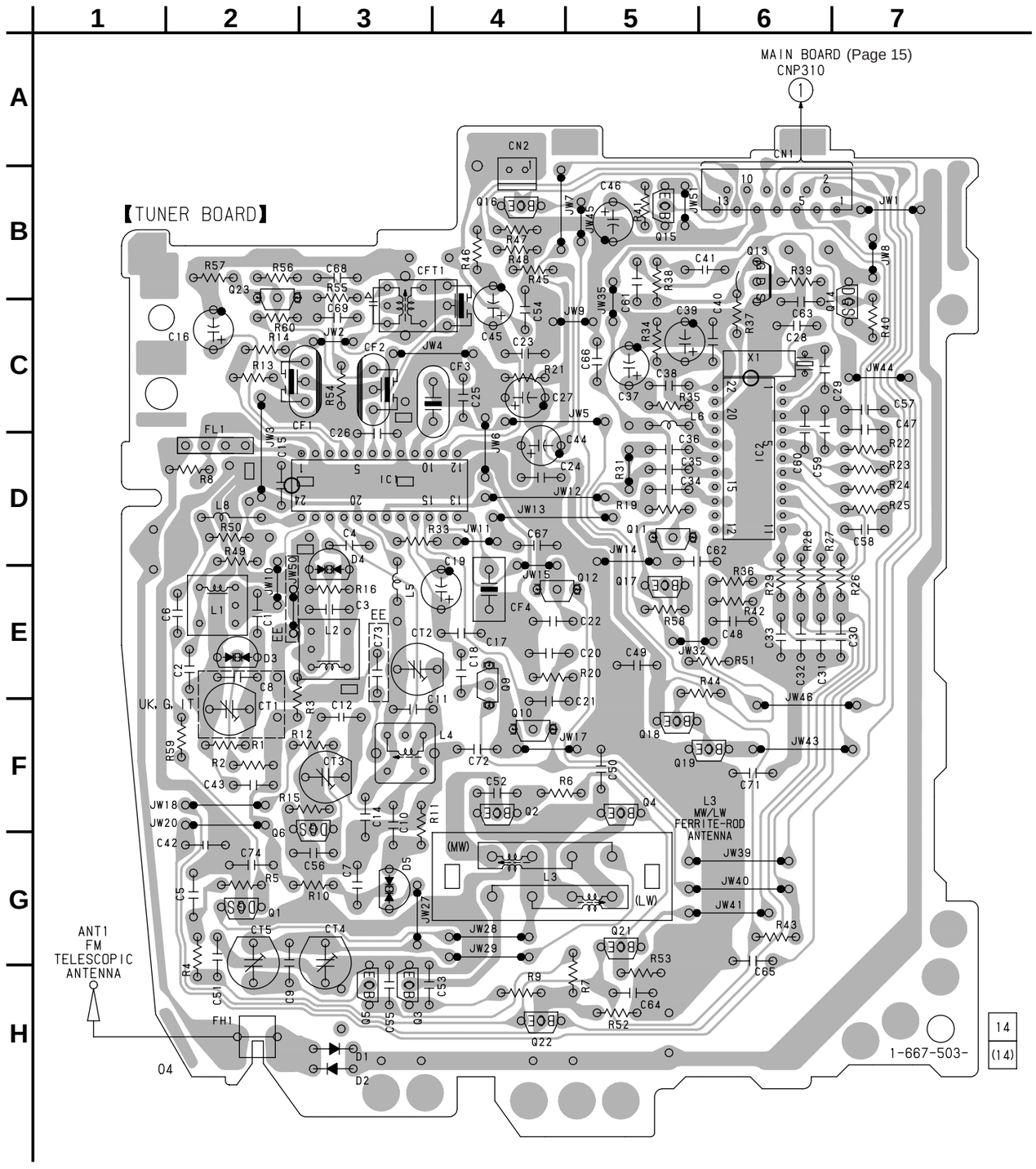
POWER Board Part No.
Former type : 1-667-502-11
New type : 1-667-502-14

– CONTROL BOARD (COMPONENT SIDE) –



CONTROL Board Part No.
Former type : 1-667-504-11
New type : 1-667-504-12

1. PRINTED WIRING BOARD — TUNER SECTION —



• **Semiconductor Location**

Ref. No.	Location
D1	H-3
D2	H-3
D3	E-2
D4	D-3
D5	G-3
IC1	D-3
IC2	D-6
Q1	G-2
Q2	F-4
Q3	H-3
Q4	F-5
Q5	H-3
Q6	F-3
Q9	E-4
Q10	F-4
Q11	D-5
Q12	E-4
Q13	B-6
Q14	B-7
Q15	B-5
Q16	B-4
Q17	E-5
Q18	F-5
Q19	F-6
Q21	G-5
Q22	H-4
Q23	B-2

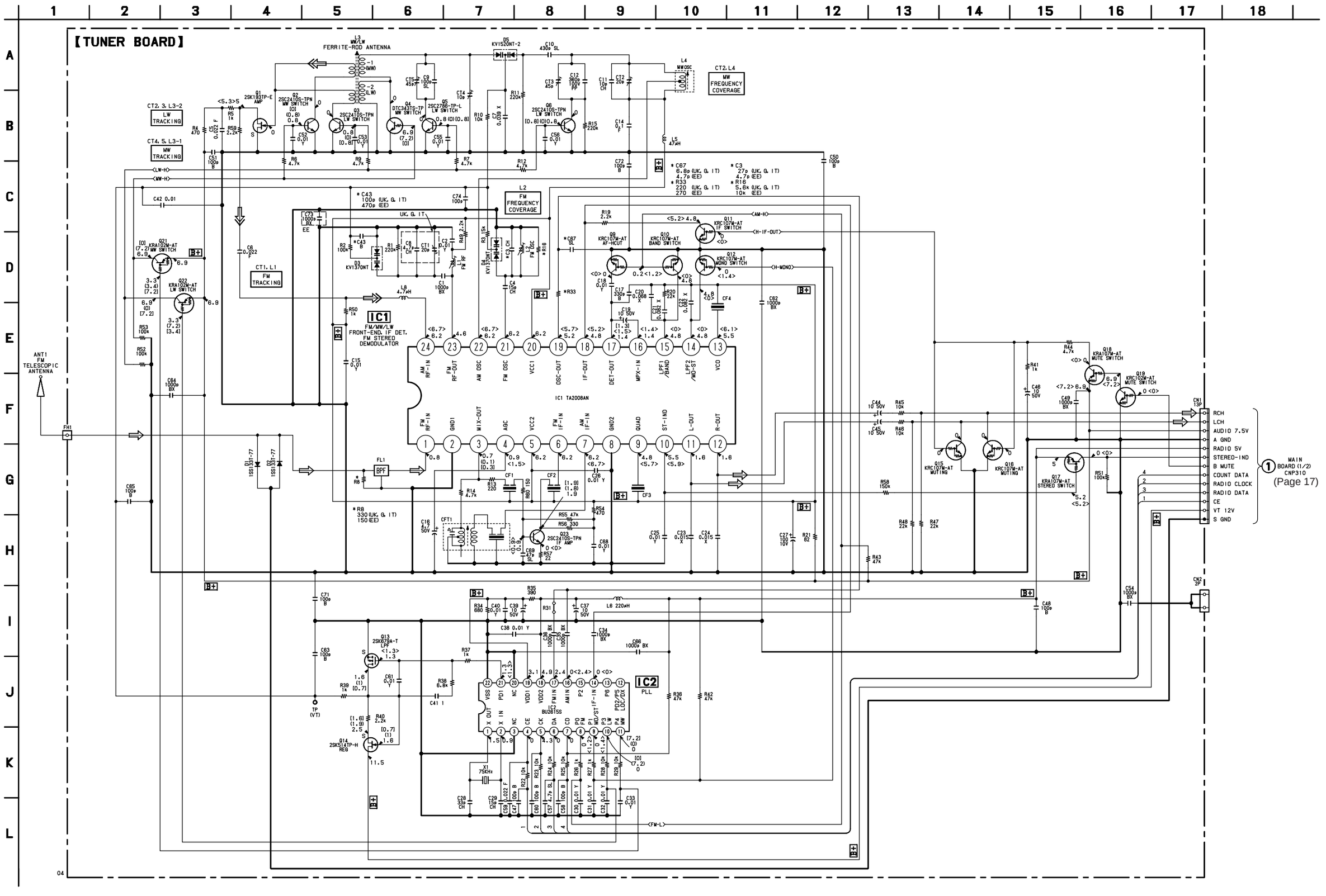
Note on Printed Wiring Boards:

- ○——○ : parts extracted from the component side.
- ⬚← : indicates side identified with part number.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

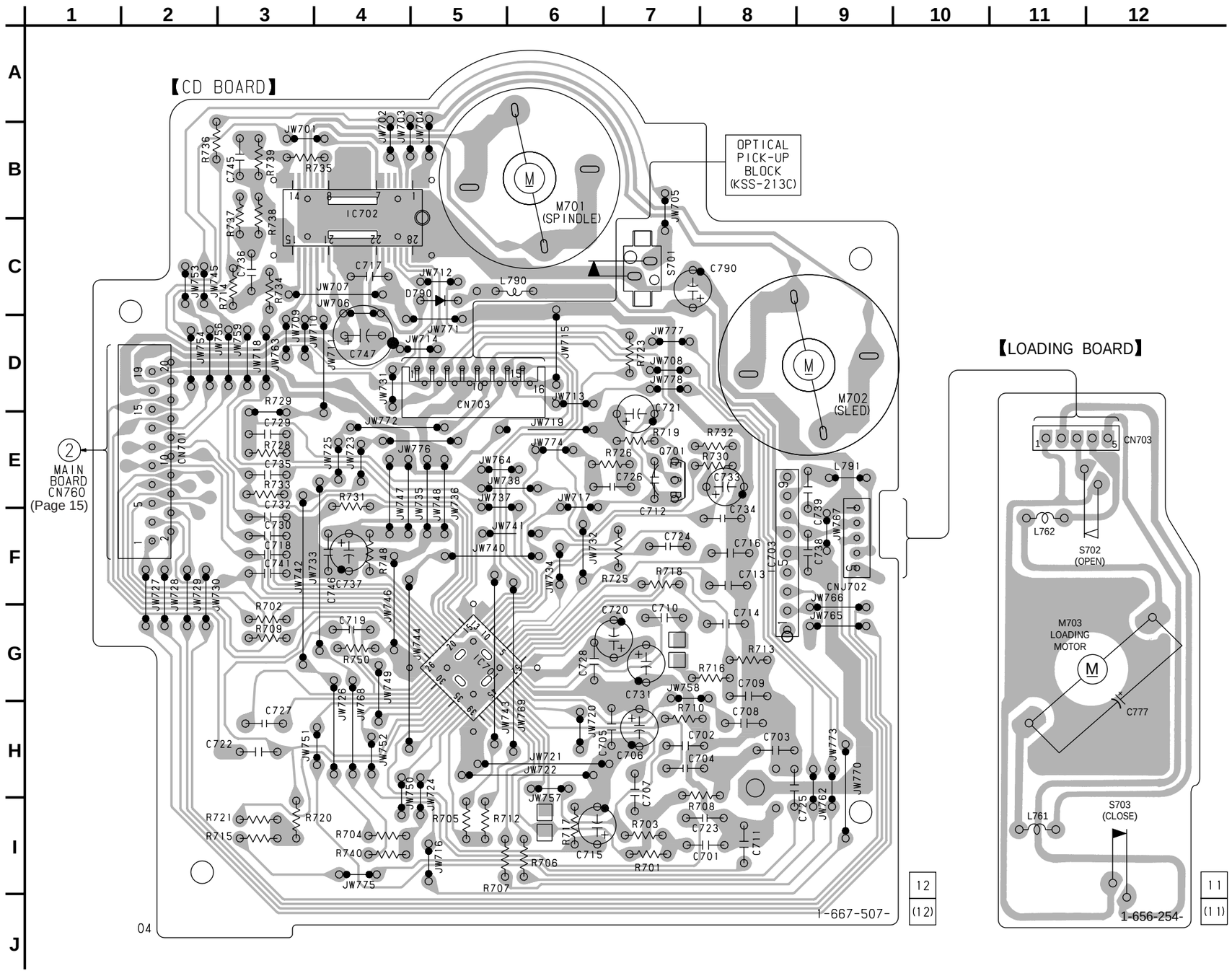
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : MW/LW
  [ ] : LW
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : MW
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

2. SCHEMATIC DIAGRAM — TUNER SECTION —



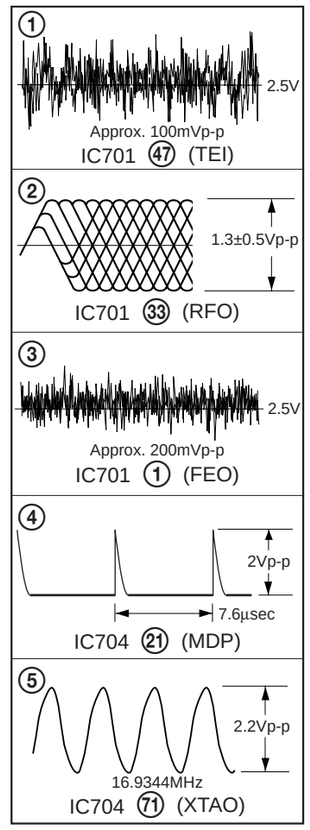
3. PRINTED WIRING BOARD — CD SECTION —



- **Semiconductor Location**

Ref. No.	Location
D790	C-5
IC701	G-5
IC702	B-4
IC703	F-8
Q701	E-7

- **Waveforms** (MODE:PLAY)



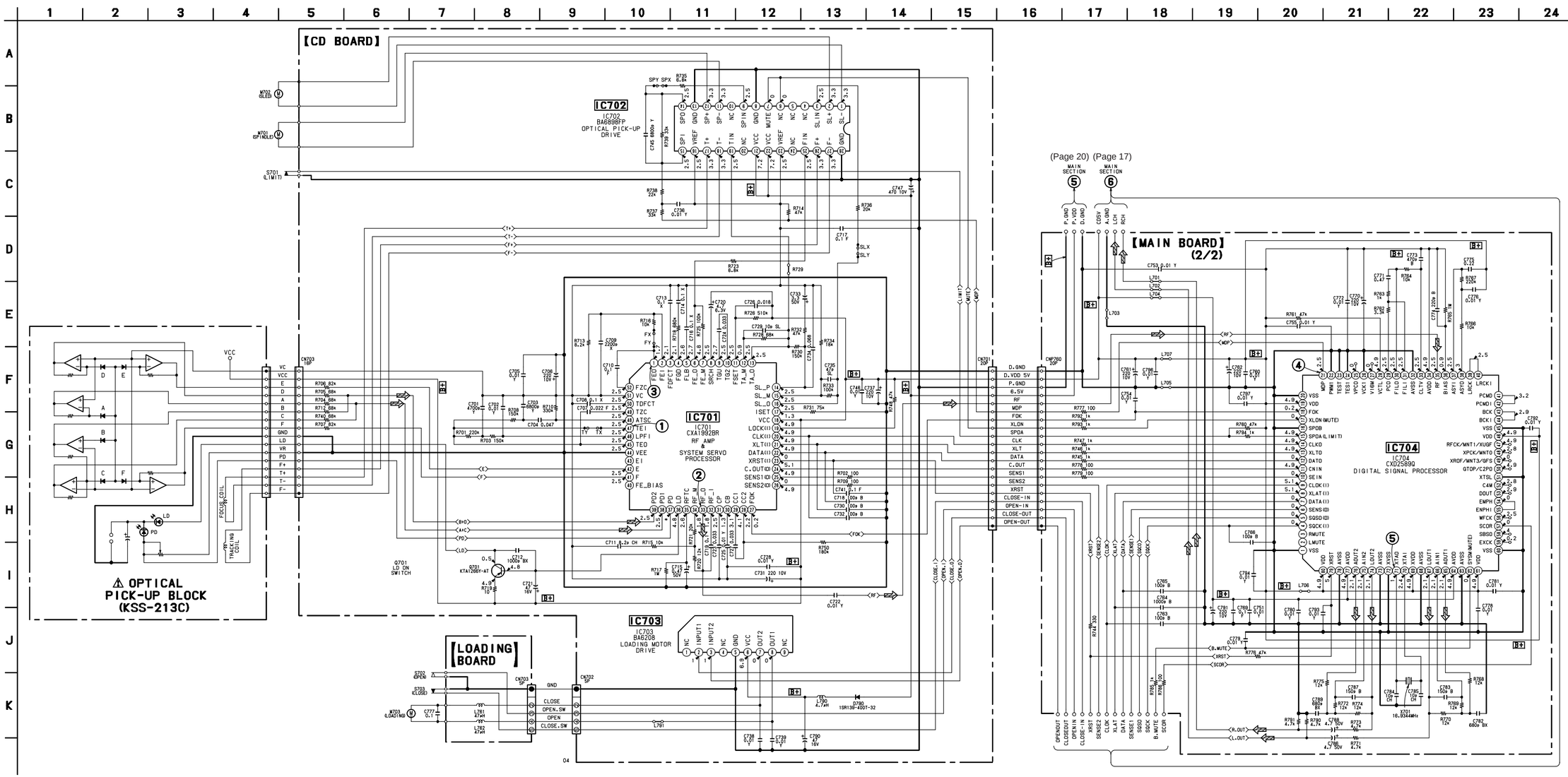
Note on Printed Wiring Boards:
- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

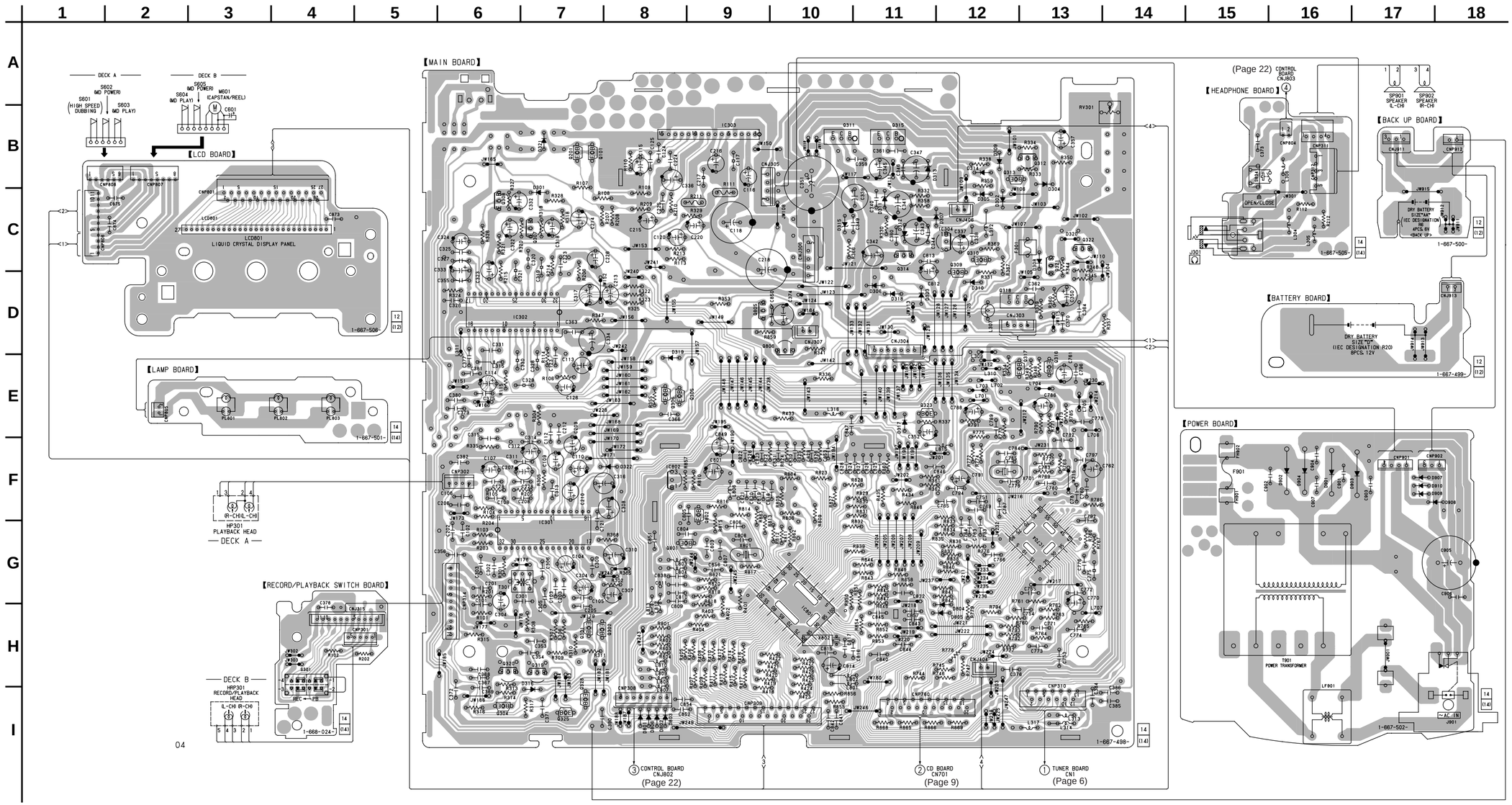
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

4. SCHEMATIC DIAGRAM — CD SECTION —



5. PRINTED WIRING BOARDS — MAIN SECTION —



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	B-7	IC302	D-6
D302	C-12	IC303	B-9
D303	D-11	IC304	C-12
D304	B-13	IC704	G-13
D305	C-12	IC801	H-10
D306	D-11	IC802	F-8
D307	C-11		
D308	C-13	Q101	B-7
D309	B-12	Q201	B-7
D310	D-12	Q301	H-7
D311	C-11	Q302	H-8
D312	C-11	Q304	I-6
D313	B-11	Q305	E-8
D314	B-12	Q306	E-8
D315	C-10	Q307	C-7
D316	I-7	Q308	C-6
D317	E-11	Q309	C-12
D318	D-11	Q310	C-12
D319	D-8	Q311	B-10
D321	B-7	Q312	B-13
D322	F-8	Q313	B-13
D801	I-8	Q314	C-11
D802	I-8	Q315	B-11
D803	I-8	Q316	D-13
D804	H-12	Q317	D-13
D805	H-12	Q318	D-13
D806	I-8	Q319	H-7
D901	F-16	Q320	H-6
D902	F-16	Q321	C-13
D903	F-17	Q322	C-13
D904	F-16	Q323	E-12
D906	F-18	Q325	I-7
D907	F-18	Q326	I-7
D908	F-18	Q801	G-8
D910	F-18	Q802	F-9
		Q805	D-9
IC301	G-7	Q806	D-10

Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

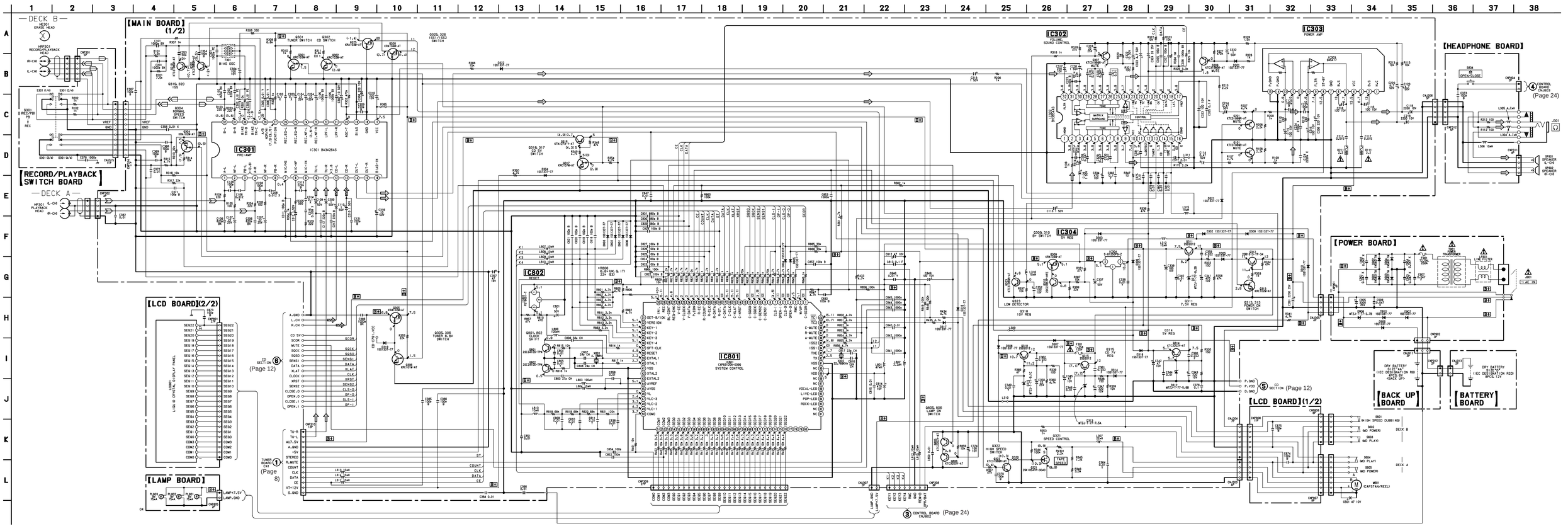
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⏦ : fusible resistor.
- ▭ : panel designation.

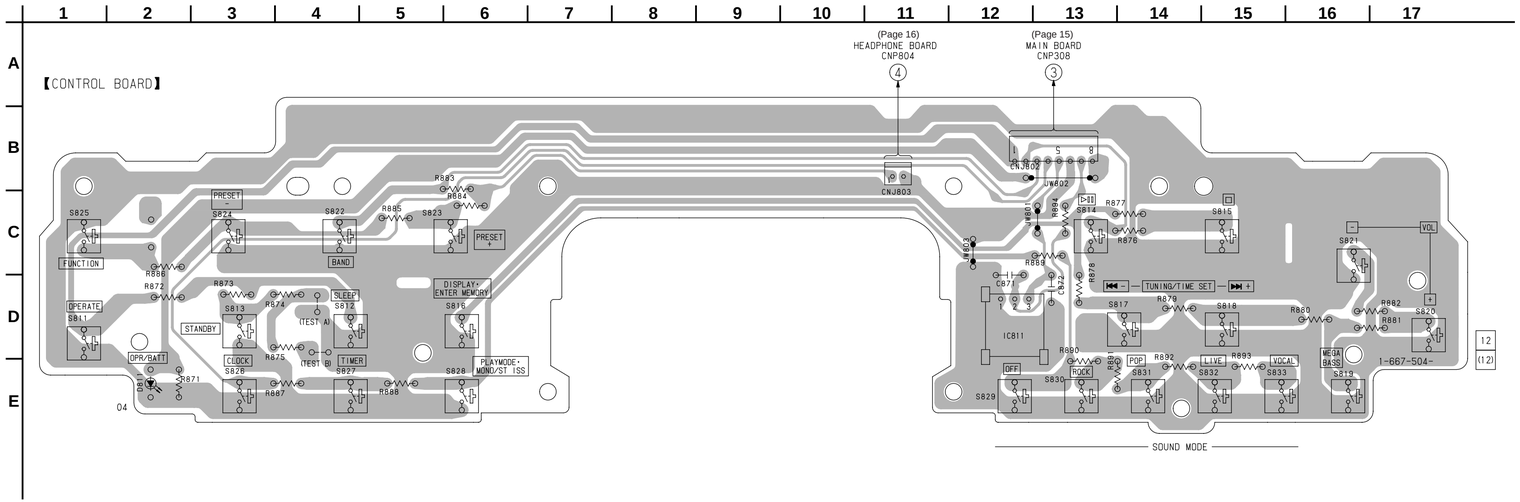
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB (DECK A)
  ⇨ : PB (DECK B)
  ⇨ : REC (DECK B)
  ⇨ : CD
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

6. SCHEMATIC DIAGRAM — MAIN SECTION —



7. PRINTED WIRING BOARD — PANEL SECTION —

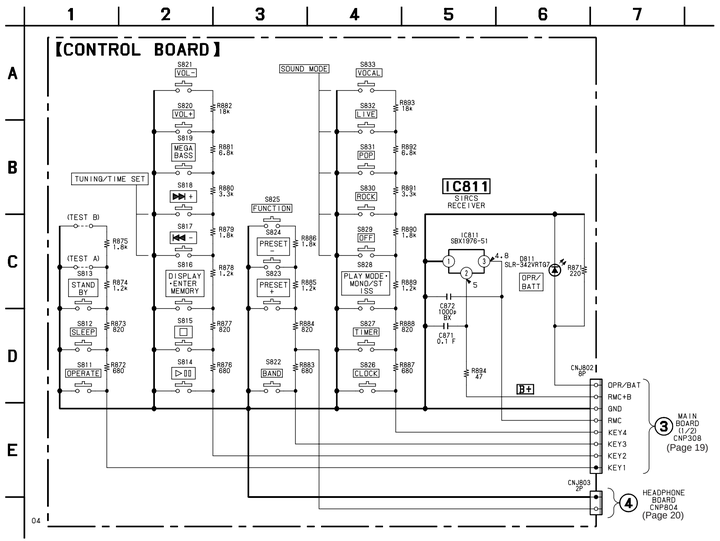


• **Semiconductor Location**

Ref. No.	Location
D811	E-2
IC811	D-12

Note:
- ⟷ : parts extracted from the component side.
- ▒▒ : Pattern from the side which enables seeing.

8. SCHEMATIC DIAGRAM — PANEL SECTION —



Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

9. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  G : German model
  IT : Italian model
  EE : East European model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-667-500-11	BACK UP BOARD			
		**********			
	3-025-890-01	SPRING , BACK UP (–)			
		< CONNECTOR >			
* CNP912	1-564-505-11	PLUG, CONNECTOR 2P			
**********					
*	1-667-499-11	BATTERY BOARD			
		**********			
	3-025-889-01	SPRING (–) (L), BATTERY			
**********					
*	A-3322-241-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C702	1-162-306-11	CERAMIC	0.01uF	20%	16V
C703	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C704	1-136-161-00	MYLAR	0.047uF	5%	50V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-126-934-11	ELECT	220uF	20%	10V
C707	1-136-157-00	MYLAR	0.022uF	5%	50V
C708	1-162-851-11	CERAMIC	0.1uF	10%	16V
C709	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C710	1-162-851-11	CERAMIC	0.1uF	10%	16V
C711	1-162-198-31	CERAMIC	8.2PF	10%	50V
C712	1-162-294-31	CERAMIC	0.001uF	10%	50V
C713	1-162-851-11	CERAMIC	0.1uF	10%	16V
C714	1-162-851-11	CERAMIC	0.1uF	10%	16V
C715	1-124-465-00	ELECT	0.47uF	20%	50V
C716	1-136-165-00	MYLAR	0.1uF	5%	50V
C717	1-164-159-21	CERAMIC	0.1uF		50V
C718	1-162-282-31	CERAMIC	100PF	10%	50V
C719	1-136-165-00	MYLAR	0.1uF	5%	50V
C720	1-131-375-00	TANTALUM	4.7uF	10%	10V
C721	1-124-589-11	ELECT	47uF	20%	16V
C722	1-162-306-11	CERAMIC	0.01uF	20%	16V
C723	1-136-159-00	MYLAR	0.033uF	5%	50V
C724	1-136-159-00	MYLAR	0.033uF	5%	50V
C725	1-162-306-11	CERAMIC	0.01uF	20%	16V
C726	1-136-156-00	MYLAR	0.018uF	5%	50V
C727	1-130-489-00	MYLAR	0.033uF	5%	50V
C728	1-162-306-11	CERAMIC	0.01uF	20%	16V
C729	1-162-199-31	CERAMIC	10PF	5%	50V
C730	1-162-282-31	CERAMIC	100PF	10%	50V
C731	1-126-934-11	ELECT	220uF	20%	10V
C732	1-162-282-31	CERAMIC	100PF	10%	50V
C733	1-126-162-11	ELECT	3.3uF	20%	50V
C734	1-136-495-11	MYLAR	0.068uF	5%	50V
C735	1-162-215-31	CERAMIC	47PF	5%	50V
C736	1-162-306-11	CERAMIC	0.01uF	20%	16V
C737	1-126-934-11	ELECT	220uF	20%	10V
C738	1-162-306-11	CERAMIC	0.01uF	20%	16V
C739	1-162-306-11	CERAMIC	0.01uF	20%	16V
C741	1-164-159-21	CERAMIC	0.1uF		50V
C745	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V
C747	1-124-472-11	ELECT	470uF	20%	10V
C790	1-124-589-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CN701	1-691-079-31	HOUSING, CONNECTOR 20P			
CN703	1-779-553-11	CONNECTOR, FFC (LIF(NON-ZIF)) 16P			
		< DIODE >			
D790	8-719-970-02	DIODE 1SR139-400			
		< IC >			
IC701	8-752-082-14	IC CXA1992BR			
IC702	8-759-473-42	IC BA6898FP			
IC703	8-759-962-08	IC BA6208			
		< COIL >			
L790	1-410-324-11	INDUCTOR	4.7uH		
		< TRANSISTOR >			
Q701	8-729-037-02	TRANSISTOR KTA1266Y-AT			
		< RESISTOR >			
R701	1-247-887-00	CARBON	220K	5%	1/4W
R702	1-247-807-11	CARBON	100	5%	1/4W
R703	1-247-883-00	CARBON	150K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-439-11	CARBON	68K	5%	1/4W
R706	1-249-440-11	CARBON	82K	5%	1/4W

CD | CD BRACKET | CONTROL

Ref. No.	Part No.	Description			Remark
R707	1-249-440-11	CARBON	82K	5%	1/4W
R708	1-247-883-00	CARBON	150K	5%	1/4W
R709	1-247-807-11	CARBON	100	5%	1/4W
R710	1-247-891-00	CARBON	330K	5%	1/4W
R712	1-249-439-11	CARBON	68K	5%	1/4W
R713	1-249-428-11	CARBON	8.2K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W
R717	1-247-903-00	CARBON	1M	5%	1/4W
R718	1-247-899-11	CARBON	680K	5%	1/4W
R719	1-249-393-11	CARBON	10	5%	1/4W
R720	1-249-430-11	CARBON	12K	5%	1/4W
R721	1-247-862-11	CARBON	20K	5%	1/4W
R723	1-249-427-11	CARBON	6.8K	5%	1/4W
R725	1-249-441-11	CARBON	100K	5%	1/4W
R726	1-247-896-11	CARBON	510K	5%	1/4W
R728	1-249-439-11	CARBON	68K	5%	1/4W
R730	1-247-883-00	CARBON	150K	5%	1/4W
R731	1-247-876-11	CARBON	75K	5%	1/4W
R732	1-249-437-11	CARBON	47K	5%	1/4W
R733	1-249-441-11	CARBON	100K	5%	1/4W
R734	1-249-432-11	CARBON	18K	5%	1/4W
R735	1-249-427-11	CARBON	6.8K	5%	1/4W
R736	1-247-862-11	CARBON	20K	5%	1/4W
R737	1-249-435-11	CARBON	33K	5%	1/4W
R738	1-247-863-11	CARBON	22K	5%	1/4W
R739	1-249-435-11	CARBON	33K	5%	1/4W
R740	1-249-439-11	CARBON	68K	5%	1/4W
R748	1-249-437-11	CARBON	47K	5%	1/4W
R750	1-247-885-00	CARBON	180K	5%	1/4W
		< SWITCH >			
S701	1-762-812-11	SWITCH, LEAF (LIMIT)			
**********					
*	1-670-439-14	CD BRACKET BOARD			
		**********			
**********					
*	A-3322-237-A	CONTROL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C871	1-164-159-21	CERAMIC	0.1uF		50V
C872	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< DIODE >			
D811	8-719-048-90	LED SLR-342VR3F (OPR/BATT)			
		< IC >			
IC811	8-742-132-00	HYBRID IC SBX1976-51P			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R871	1-247-815-11	CARBON	220	5%	1/4W
R872	1-249-415-11	CARBON	680	5%	1/4W
R873	1-249-416-11	CARBON	820	5%	1/4W
R874	1-249-418-11	CARBON	1.2K	5%	1/4W
R875	1-247-837-11	CARBON	1.8K	5%	1/4W
R876	1-249-415-11	CARBON	680	5%	1/4W
R877	1-249-416-11	CARBON	820	5%	1/4W
R878	1-249-418-11	CARBON	1.2K	5%	1/4W
R879	1-247-837-11	CARBON	1.8K	5%	1/4W
R880	1-247-843-11	CARBON	3.3K	5%	1/4W
R881	1-249-427-11	CARBON	6.8K	5%	1/4W
R882	1-249-432-11	CARBON	18K	5%	1/4W
R883	1-249-415-11	CARBON	680	5%	1/4W
R884	1-249-416-11	CARBON	820	5%	1/4W
R885	1-249-418-11	CARBON	1.2K	5%	1/4W
R886	1-247-837-11	CARBON	1.8K	5%	1/4W
R887	1-249-415-11	CARBON	680	5%	1/4W
R888	1-249-416-11	CARBON	820	5%	1/4W
R889	1-249-418-11	CARBON	1.2K	5%	1/4W
R890	1-247-837-11	CARBON	1.8K	5%	1/4W
R891	1-247-843-11	CARBON	3.3K	5%	1/4W
R892	1-249-427-11	CARBON	6.8K	5%	1/4W
R893	1-249-432-11	CARBON	18K	5%	1/4W
R894	1-249-401-11	CARBON	47	5%	1/4W
		< SWITCH >			
S811	1-692-014-11	SWITCH, KEY BOARD (OPERATE)			
S812	1-692-014-11	SWITCH, KEY BOARD (SLEEP)			
S813	1-692-014-11	SWITCH, KEY BOARD (STANDBY)			
S814	1-692-014-11	SWITCH, KEY BOARD (▷ ▯▯)			
S815	1-692-014-11	SWITCH, KEY BOARD (□)			
S816	1-692-014-11	SWITCH, KEY BOARD (DISPLAY• ENTER MEMORY)			
S817	1-692-014-11	SWITCH, KEY BOARD (TUNING/ TIME SET ◀◀ –)			
S818	1-692-014-11	SWITCH, KEY BOARD (TUNING/ TIME SET ▶▶ +)			
S819	1-692-014-11	SWITCH, KEY BOARD (MEGA BASS)			
S820	1-692-014-11	SWITCH, KEY BOARD (VOL +)			
S821	1-692-014-11	SWITCH, KEY BOARD (VOL –)			
S822	1-692-014-11	SWITCH, KEY BOARD (BAND)			
S823	1-692-014-11	SWITCH, KEY BOARD (PRESET +)			
S824	1-692-014-11	SWITCH, KEY BOARD (PRESET –)			
S825	1-692-014-11	SWITCH, KEY BOARD (FUNCTION)			
S826	1-692-014-11	SWITCH, KEY BOARD (CLOCK)			
S827	1-692-014-11	SWITCH, KEY BOARD (TIMER)			
S828	1-692-014-11	SWITCH, KEY BOARD (PLAY MODE• MONO/ST ISS)			
S829	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE OFF)			
S830	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE ROCK)			
S831	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE POP)			
S832	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE LIVE)			

Ref. No.	Part No.	Description			Remark
S833	1-692-014-11	SWITCH, KEY BOARD (SOUND MODE VOCAL)			
**********					
*	1-667-505-14	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C373	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
* CNP311	1-564-519-11	PLUG, CONNECTOR 4P			
* CNP312	1-564-520-11	PLUG, CONNECTOR 5P			
CNP804	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< JACK >			
J301	1-779-050-11	JACK (🎧)			
		< COIL >			
L304	1-410-324-11	INDUCTOR	4.7uH		
L305	1-410-324-11	INDUCTOR	4.7uH		
L306	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R112	1-247-807-11	CARBON	100	5%	1/4W
R212	1-247-807-11	CARBON	100	5%	1/4W
		< SWITCH >			
S834	1-554-088-00	SWITCH, KEY BOARD (⏏ OPEN/CLOSE)			
**********					
*	1-668-026-11	H/P RETAINER BOARD			
		**********			
**********					
*	1-667-501-14	LAMP BOARD			
		**********			
	4-951-620-11	SCREW (2.6X10), +BVTP			
		< CONNECTOR >			
* CNP805	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< PILOT LAMP >			
PL801	1-517-474-31	LAMP, PILOT (8V/75mA)			
PL802	1-517-474-31	LAMP, PILOT (8V/75mA)			
PL803	1-517-474-31	LAMP, PILOT (8V/75mA)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-667-506-11	LCD BOARD			
		**********			
	1-791-648-11	WIRE, PARALLEL (FFC) (27 CORE)			
	3-021-465-01	ILLUMINATOR			
	3-021-484-01	HOLDER, LCD			
		< CAPACITOR >			
C873	1-162-282-31	CERAMIC	100PF	10%	50V
C874	1-162-282-31	CERAMIC	100PF	10%	50V
C875	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNP801	1-695-388-21	PIN, CONNECTOR (PC BOARD) 27P			
* CNP807	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CNP808	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-801-909-11	DISPLAY PANEL, LIQUID CRYSTAL			
**********					
*	1-656-254-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN703	1-695-107-11	PIN, CONNECTOR (PC BOARD) 5P			
		< COIL >			
L761	1-412-852-11	INDUCTOR	47uH		
L762	1-412-852-11	INDUCTOR	47uH		
		< SWITCH >			
S702	1-572-086-11	SWITCH, LEAF (OPEN)			
S703	1-572-086-11	SWITCH, LEAF (CLOSE)			
**********					
*	A-3323-330-A	MAIN BOARD, COMPLETE (UK,G,IT)			
*	A-3323-332-A	MAIN BOARD, COMPLETE (EE)			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V
C102	1-162-293-31	CERAMIC	820PF	10%	50V
C103	1-162-851-11	CERAMIC	0.1uF	10%	16V
C104	1-126-233-11	ELECT	22uF	20%	50V
C105	1-162-294-31	CERAMIC	0.001uF	10%	50V
C106	1-162-293-31	CERAMIC	820PF	10%	50V
C107	1-126-233-11	ELECT	22uF	20%	50V
C108	1-162-840-11	CERAMIC	0.012uF	10%	16V
C109	1-124-903-11	ELECT	1uF	20%	50V
C110	1-124-903-11	ELECT	1uF	20%	50V
C112	1-162-286-21	CERAMIC	220PF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C113	1-124-903-11	ELECT	1uF	20%	50V
C114	1-124-902-00	ELECT	0.47uF	20%	50V
C115	1-104-665-11	ELECT	100uF	20%	10V
C116	1-104-665-11	ELECT	100uF	20%	10V
C117	1-136-155-00	FILM	0.015uF	5%	50V
C118	1-126-927-11	ELECT	2200uF	20%	10V
C120	1-126-963-11	ELECT	4.7uF	20%	50V
C121	1-162-286-21	CERAMIC	220PF	10%	50V
C123	1-162-282-31	CERAMIC	100PF	10%	50V
C124	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C125	1-162-282-31	CERAMIC	100PF	10%	50V
C126	1-124-903-11	ELECT	1uF	20%	50V
C128	1-162-282-31	CERAMIC	100PF	10%	50V
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V
C202	1-162-293-31	CERAMIC	820PF	10%	50V
C203	1-162-851-11	CERAMIC	0.1uF	10%	16V
C204	1-126-233-11	ELECT	22uF	20%	50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V
C206	1-162-293-31	CERAMIC	820PF	10%	50V
C207	1-126-233-11	ELECT	22uF	20%	50V
C208	1-162-840-11	CERAMIC	0.012uF	10%	16V
C209	1-124-903-11	ELECT	1uF	20%	50V
C210	1-124-903-11	ELECT	1uF	20%	50V
C212	1-162-286-21	CERAMIC	220PF	10%	50V
C213	1-124-903-11	ELECT	1uF	20%	50V
C214	1-124-902-00	ELECT	0.47uF	20%	50V
C215	1-104-665-11	ELECT	100uF	20%	10V
C216	1-104-665-11	ELECT	100uF	20%	10V
C217	1-136-155-00	FILM	0.015uF	5%	50V
C218	1-126-927-11	ELECT	2200uF	20%	10V
C220	1-126-963-11	ELECT	4.7uF	20%	50V
C223	1-162-282-31	CERAMIC	100PF	10%	50V
C224	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C225	1-162-282-31	CERAMIC	100PF	10%	50V
C226	1-124-903-11	ELECT	1uF	20%	50V
C228	1-162-282-31	CERAMIC	100PF	10%	50V
C301	1-130-471-00	MYLAR	0.001uF	5%	50V
C302	1-130-483-00	MYLAR	0.01uF	5%	50V
C303	1-130-483-00	MYLAR	0.01uF	5%	50V
C304	1-104-665-11	ELECT	100uF	20%	10V
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V
C306	1-162-306-11	CERAMIC	0.01uF	20%	16V
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-104-666-11	ELECT	220uF	20%	10V
C309	1-162-286-21	CERAMIC	220PF	10%	50V
C310	1-104-666-11	ELECT	220uF	20%	10V
C311	1-162-282-31	CERAMIC	100PF	10%	50V
C312	1-124-903-11	ELECT	1uF	20%	50V
C313	1-162-286-21	CERAMIC	220PF	10%	50V
C314	1-162-851-11	CERAMIC	0.1uF	10%	16V
C315	1-161-020-11	CERAMIC	0.039uF	10%	16V
C316	1-124-907-11	ELECT	10uF	20%	50V
C317	1-104-666-11	ELECT	220uF	20%	10V

Ref. No.	Part No.	Description			Remark
C318	1-126-233-11	ELECT	22uF	20%	50V
C319	1-136-161-00	MYLAR	0.047uF	5%	50V
C320	1-136-161-00	MYLAR	0.047uF	5%	50V
C321	1-136-153-00	FILM	0.01uF	5%	50V
C322	1-124-907-11	ELECT	10uF	20%	50V
C323	1-126-963-11	ELECT	4.7uF	20%	50V
C324	1-126-966-11	ELECT	33uF	20%	25V
C325	1-162-282-31	CERAMIC	100PF	10%	50V
C326	1-162-294-31	CERAMIC	0.001uF	10%	50V
C327	1-162-282-31	CERAMIC	100PF	10%	50V
C328	1-136-161-00	MYLAR	0.047uF	5%	50V
C329	1-136-161-00	MYLAR	0.047uF	5%	50V
C330	1-136-153-00	FILM	0.01uF	5%	50V
C331	1-136-165-00	MYLAR	0.1uF	5%	50V
C332	1-124-903-11	ELECT	1uF	20%	50V
C333	1-104-665-11	ELECT	100uF	20%	10V
C334	1-124-472-11	ELECT	470uF	20%	10V
C336	1-104-666-11	ELECT	220uF	20%	10V
C337	1-124-903-11	ELECT	1uF	20%	50V
C338	1-162-306-11	CERAMIC	0.01uF	20%	16V
C339	1-104-665-11	ELECT	100uF	20%	10V
C340	1-162-306-11	CERAMIC	0.01uF	20%	16V
C341	1-124-472-11	ELECT	470uF	20%	10V
C342	1-104-664-11	ELECT	47uF	20%	10V
C343	1-104-666-11	ELECT	220uF	20%	10V
C344	1-162-306-11	CERAMIC	0.01uF	20%	16V
C345	1-104-664-11	ELECT	47uF	20%	10V
C346	1-162-306-11	CERAMIC	0.01uF	20%	16V
C347	1-104-666-11	ELECT	220uF	20%	10V
C349	1-162-306-11	CERAMIC	0.01uF	20%	16V
C350	1-126-233-11	ELECT	22uF	20%	50V
C351	1-126-943-11	ELECT	2200uF	20%	25V
C352	1-104-665-11	ELECT	100uF	20%	10V
C353	1-162-284-31	CERAMIC	150PF	10%	50V
C354	1-162-282-31	CERAMIC	100PF	10%	50V
C355	1-164-159-21	CERAMIC	0.1uF		50V
C356	1-162-306-11	CERAMIC	0.01uF	20%	16V
C357	1-104-664-11	ELECT	47uF	20%	16V
C359	1-161-494-00	CERAMIC	0.022uF		25V
C360	1-161-494-00	CERAMIC	0.022uF		25V
C361	1-161-494-00	CERAMIC	0.022uF		25V
C362	1-161-494-00	CERAMIC	0.022uF		25V
C363	1-164-159-21	CERAMIC	0.1uF		50V
C364	1-162-306-11	CERAMIC	0.01uF	20%	16V
C366	1-162-294-31	CERAMIC	0.001uF	10%	50V
C367	1-162-282-31	CERAMIC	100PF	10%	50V
C368	1-162-282-31	CERAMIC	100PF	10%	50V
C369	1-162-282-31	CERAMIC	100PF	10%	50V
C370	1-162-282-31	CERAMIC	100PF	10%	50V
C371	1-162-282-31	CERAMIC	100PF	10%	50V
C372	1-162-306-11	CERAMIC	0.01uF	20%	16V
C374	1-104-665-11	ELECT	100uF	20%	10V
C375	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C376	1-164-159-21	CERAMIC	0.1uF		50V
C377	1-162-306-11	CERAMIC	0.01uF	20%	16V
C379	1-162-306-11	CERAMIC	0.01uF	20%	16V
C380	1-162-306-11	CERAMIC	0.01uF	20%	16V
C381	1-162-306-11	CERAMIC	0.01uF	20%	16V
C382	1-162-306-11	CERAMIC	0.01uF	20%	16V
C384	1-162-306-11	CERAMIC	0.01uF	20%	16V
C385	1-162-282-31	CERAMIC	100PF	10%	50V
C386	1-162-282-31	CERAMIC	100PF	10%	50V
C390	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-162-306-11	CERAMIC	0.01uF	20%	16V
C754	1-162-306-11	CERAMIC	0.01uF	20%	16V
C755	1-162-306-11	CERAMIC	0.01uF	20%	16V
C760	1-162-306-11	CERAMIC	0.01uF	20%	16V
C761	1-104-666-11	ELECT	220uF	20%	10V
C762	1-104-666-11	ELECT	220uF	20%	10V
C763	1-162-282-31	CERAMIC	100PF	10%	50V
C764	1-162-294-31	CERAMIC	0.001uF	10%	50V
C765	1-162-282-31	CERAMIC	100PF	10%	50V
C766	1-162-282-31	CERAMIC	100PF	10%	50V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C770	1-104-666-11	ELECT	220uF	20%	10V
C771	1-137-194-11	MYLAR	0.47uF	5%	50V
C772	1-162-306-11	CERAMIC	0.01uF	20%	16V
C773	1-162-290-31	CERAMIC	470PF	10%	50V
C774	1-162-286-21	CERAMIC	220PF	10%	50V
C775	1-130-499-00	MYLAR	0.22uF	5%	50V
C776	1-162-306-11	CERAMIC	0.01uF	20%	16V
C778	1-162-306-11	CERAMIC	0.01uF	20%	16V
C779	1-162-306-11	CERAMIC	0.01uF	20%	16V
C780	1-162-306-11	CERAMIC	0.01uF	20%	16V
C781	1-162-306-11	CERAMIC	0.01uF	20%	16V
C782	1-162-292-31	CERAMIC	680PF	10%	50V
C783	1-162-284-31	CERAMIC	150PF	10%	50V
C784	1-162-199-31	CERAMIC	10PF	5%	50V
C785	1-162-199-31	CERAMIC	10PF	5%	50V
C786	1-126-963-11	ELECT	4.7uF	20%	50V
C787	1-162-284-31	CERAMIC	150PF	10%	50V
C788	1-126-963-11	ELECT	4.7uF	20%	50V
C789	1-162-292-31	CERAMIC	680PF	10%	50V
C791	1-104-666-11	ELECT	220uF	20%	10V
C792	1-162-306-11	CERAMIC	0.01uF	20%	16V
C793	1-162-306-11	CERAMIC	0.01uF	20%	16V
C794	1-162-306-11	CERAMIC	0.01uF	20%	16V
C796	1-162-306-11	CERAMIC	0.01uF	20%	16V
C797	1-162-306-11	CERAMIC	0.01uF	20%	16V
C801	1-124-903-11	ELECT	1uF	20%	50V
C803	1-102-516-11	CERAMIC	27PF	5%	50V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C805	1-162-306-11	CERAMIC	0.01uF	20%	16V
C806	1-102-518-11	CERAMIC	33PF	5%	50V
C807	1-102-960-00	CERAMIC	24PF	5%	50V

Ref. No.	Part No.	Description			Remark
C808	1-102-960-00	CERAMIC	24PF	5%	50V
C809	1-162-306-11	CERAMIC	0.01uF	20%	16V
C810	1-162-306-11	CERAMIC	0.01uF	20%	16V
C811	1-162-306-11	CERAMIC	0.01uF	20%	16V
C812	1-104-664-11	ELECT	47uF	20%	10V
C813	1-164-159-21	CERAMIC	0.1uF		50V
C814	1-124-472-11	ELECT	470uF	20%	10V
C815	1-162-306-11	CERAMIC	0.01uF	20%	16V
C816	1-102-514-11	CERAMIC	22PF	5%	50V
C817	1-102-514-11	CERAMIC	22PF	5%	50V
C818	1-162-282-31	CERAMIC	100PF	10%	50V
C819	1-162-282-31	CERAMIC	100PF	10%	50V
C820	1-162-282-31	CERAMIC	100PF	10%	50V
C821	1-162-282-31	CERAMIC	100PF	10%	50V
C822	1-162-282-31	CERAMIC	100PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C826	1-162-282-31	CERAMIC	100PF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C828	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-292-31	CERAMIC	680PF	10%	50V
C830	1-162-292-31	CERAMIC	680PF	10%	50V
C831	1-162-292-31	CERAMIC	680PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C838	1-162-306-11	CERAMIC	0.01uF	20%	16V
C840	1-162-306-11	CERAMIC	0.01uF	20%	16V
C841	1-162-294-31	CERAMIC	0.001uF	10%	50V
C842	1-162-294-31	CERAMIC	0.001uF	10%	50V
C843	1-162-294-31	CERAMIC	0.001uF	10%	50V
C844	1-162-294-31	CERAMIC	0.001uF	10%	50V
C845	1-162-294-31	CERAMIC	0.001uF	10%	50V
C846	1-162-306-11	CERAMIC	0.01uF	20%	16V
C847	1-162-306-11	CERAMIC	0.01uF	20%	16V
C849	1-104-665-11	ELECT	100uF	20%	10V
C850	1-162-306-11	CERAMIC	0.01uF	20%	16V
C851	1-162-306-11	CERAMIC	0.01uF	20%	16V
C852	1-162-282-31	CERAMIC	100PF	10%	50V
C853	1-162-294-31	CERAMIC	0.001uF	10%	50V
C854	1-162-282-31	CERAMIC	100PF	10%	50V
C856	1-162-306-11	CERAMIC	0.01uF	20%	16V
C857	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

*	CNP302	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
*	CNP308	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
	CNP309	1-695-350-11	PIN, CONNECTOR (PC BOARD) 27P
	CNP310	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P
*	CNP314	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P
*	CNP760	1-569-936-11	PIN, CONNECTOR (PC BOARD) 20P

MAIN

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D303	8-719-991-33	DIODE 1SS133T-77	
D304	8-719-991-33	DIODE 1SS133T-77	
D305	8-719-991-33	DIODE 1SS133T-77	
D306	8-719-991-33	DIODE 1SS133T-77	
D307	8-719-991-33	DIODE 1SS133T-77	
D308	8-719-991-33	DIODE 1SS133T-77	
D309	8-719-991-33	DIODE 1SS133T-77	
D310	8-719-991-33	DIODE 1SS133T-77	
D311	8-719-110-08	DIODE RD8.2ES-B2	
D312	8-719-109-89	DIODE RD5.6ESB2	
D313	8-719-110-03	DIODE RD7.5ESB2	
D314	8-719-991-33	DIODE 1SS133T-77	
D315	8-719-110-14	DIODE RD9.1ES-B3	
D316	8-719-991-33	DIODE 1SS133T-77	
D317	8-719-991-33	DIODE 1SS133T-77	
D318	8-719-991-33	DIODE 1SS133T-77	
D319	8-719-991-33	DIODE 1SS133T-77	
D321	8-719-991-33	DIODE 1SS133T-77	
D322	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	
D804	8-719-991-33	DIODE 1SS133T-77	
D805	8-719-991-33	DIODE 1SS133T-77	
D806	8-719-991-33	DIODE 1SS133T-77	
		< FUSE >	
⚠F301	1-533-905-11	FUSE, MICRO (1.25A/125V)	
		< IC >	
IC301	8-759-457-58	IC BA3426AS	
IC302	8-759-432-41	IC BH3854AS	
IC303	8-759-426-51	IC BA5417	
IC304	8-759-095-60	IC S-81250PG	
IC704	8-752-384-13	IC CXD2589Q	
IC801	8-752-909-94	IC CXP83120A-039Q	
IC802	8-759-165-86	IC PST600I-T	
		< COIL >	
L307	1-412-848-11	INDUCTOR 22uH	
L312	1-410-509-11	INDUCTOR 10uH	
L313	1-410-509-11	INDUCTOR 10uH	
L314	1-410-509-11	INDUCTOR 10uH	
L315	1-410-509-11	INDUCTOR 10uH	
L316	1-410-509-11	INDUCTOR 10uH	
L317	1-410-509-11	INDUCTOR 10uH	
L801	1-410-517-11	INDUCTOR 47uH	
L802	1-414-146-31	INDUCTOR 2.2uH	
L803	1-410-521-11	INDUCTOR 100uH	
L804	1-410-509-11	INDUCTOR 10uH	
L806	1-410-521-11	INDUCTOR 100uH	
L807	1-410-509-11	INDUCTOR 10uH	
L808	1-410-509-11	INDUCTOR 10uH	
L809	1-410-509-11	INDUCTOR 10uH	
L810	1-410-509-11	INDUCTOR 10uH	
L812	1-410-509-11	INDUCTOR 10uH	
L813	1-410-509-11	INDUCTOR 10uH	
L815	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q201	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q301	8-729-036-58	TRANSISTOR KRC102M-AT	
Q302	8-729-036-58	TRANSISTOR KRC102M-AT	
Q304	8-729-037-29	TRANSISTOR KRA102M	
Q305	8-729-037-29	TRANSISTOR KRA102M	
Q306	8-729-036-57	TRANSISTOR KRC101M-AT	
Q307	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q308	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q309	8-729-037-17	TRANSISTOR KRA104M-AT	
Q310	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q311	8-729-209-15	TRANSISTOR 2SD2012	
Q312	8-729-801-84	TRANSISTOR 2SB1013-4	
Q313	8-729-036-58	TRANSISTOR KRC102M-AT	
Q314	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q315	8-729-209-15	TRANSISTOR 2SD2012	
Q316	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q317	8-729-036-77	TRANSISTOR KRC107M	
Q318	8-729-209-15	TRANSISTOR 2SD2012	
Q319	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q320	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q321	8-729-011-94	FET 2SK105ATP-3040	
Q322	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q323	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q325	8-729-037-17	TRANSISTOR KRA104M-AT	
Q326	8-729-037-17	TRANSISTOR KRA104M-AT	
Q801	8-729-922-66	TRANSISTOR 2SC2410SN	
Q802	8-729-922-66	TRANSISTOR 2SC2410SN	
Q805	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q806	8-729-036-86	TRANSISTOR KTC3203Y-AT	
		< RESISTOR >	
R101	1-247-852-11	CARBON 7.5K 5% 1/4W	
R103	1-247-815-11	CARBON 220 5% 1/4W	
R104	1-247-815-11	CARBON 220 5% 1/4W	
R105	1-247-807-11	CARBON 100 5% 1/4W	
R106	1-247-831-11	CARBON 1K 5% 1/4W	
R107	1-249-425-11	CARBON 4.7K 5% 1/4W	
R108	1-249-421-11	CARBON 2.2K 5% 1/4W	
R109	1-247-831-11	CARBON 1K 5% 1/4W	
R110	1-247-816-11	CARBON 240 5% 1/4W	
⚠R111	1-202-958-11	FUSIBLE 2.2 5% 1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R113	1-249-429-11	CARBON	10K	5%	1/4W
R114	1-247-863-11	CARBON	22K	5%	1/4W
R115	1-249-421-11	CARBON	2.2K	5%	1/4W
R201	1-247-852-11	CARBON	7.5K	5%	1/4W
R203	1-247-815-11	CARBON	220	5%	1/4W
R204	1-247-815-11	CARBON	220	5%	1/4W
R205	1-247-807-11	CARBON	100	5%	1/4W
R206	1-247-831-11	CARBON	1K	5%	1/4W
R207	1-249-425-11	CARBON	4.7K	5%	1/4W
R208	1-249-421-11	CARBON	2.2K	5%	1/4W
R209	1-247-831-11	CARBON	1K	5%	1/4W
R210	1-247-816-11	CARBON	240	5%	1/4W
⚠R211	1-202-958-11	FUSIBLE	2.2	5%	1/4W F
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-247-863-11	CARBON	22K	5%	1/4W
R215	1-249-421-11	CARBON	2.2K	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-247-895-11	CARBON	470K	5%	1/4W
R304	1-247-831-11	CARBON	1K	5%	1/4W
R305	1-249-414-11	CARBON	560	5%	1/4W
R306	1-247-831-11	CARBON	1K	5%	1/4W
R307	1-247-831-11	CARBON	1K	5%	1/4W
R308	1-249-411-11	CARBON	330	5%	1/4W
R309	1-249-427-11	CARBON	6.8K	5%	1/4W
R310	1-247-831-11	CARBON	1K	5%	1/4W
R311	1-249-427-11	CARBON	6.8K	5%	1/4W
R313	1-247-863-11	CARBON	22K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-249-429-11	CARBON	10K	5%	1/4W
R317	1-247-863-11	CARBON	22K	5%	1/4W
R318	1-247-831-11	CARBON	1K	5%	1/4W
R319	1-249-437-11	CARBON	47K	5%	1/4W
R320	1-247-903-00	CARBON	1M	5%	1/4W
R321	1-247-807-11	CARBON	100	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-247-903-00	CARBON	1M	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-247-843-11	CARBON	3.3K	5%	1/4W
R327	1-247-895-11	CARBON	470K	5%	1/4W
R328	1-247-831-11	CARBON	1K	5%	1/4W
R329	1-249-419-11	CARBON	1.5K	5%	1/4W
R330	1-249-407-11	CARBON	150	5%	1/4W
R331	1-249-437-11	CARBON	47K	5%	1/4W
R332	1-249-407-11	CARBON	150	5%	1/4W
R333	1-247-831-11	CARBON	1K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-247-815-11	CARBON	220	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W
R338	1-249-407-11	CARBON	150	5%	1/4W
R339	1-247-807-11	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R341	1-249-425-11	CARBON	4.7K	5%	1/4W
R344	1-249-441-11	CARBON	100K	5%	1/4W
R345	1-249-418-11	CARBON	1.2K	5%	1/4W
R346	1-247-843-11	CARBON	3.3K	5%	1/4W
R347	1-249-393-11	CARBON	10	5%	1/4W
R348	1-249-437-11	CARBON	47K	5%	1/4W
R349	1-249-425-11	CARBON	4.7K	5%	1/4W
R350	1-249-425-11	CARBON	4.7K	5%	1/4W
R353	1-247-831-11	CARBON	1K	5%	1/4W
R354	1-249-425-11	CARBON	4.7K	5%	1/4W
R355	1-247-863-11	CARBON	22K	5%	1/4W
R357	1-249-437-11	CARBON	47K	5%	1/4W
R358	1-249-437-11	CARBON	47K	5%	1/4W
R359	1-249-429-11	CARBON	10K	5%	1/4W
R360	1-249-425-11	CARBON	4.7K	5%	1/4W
R361	1-249-425-11	CARBON	4.7K	5%	1/4W
R362	1-247-831-11	CARBON	1K	5%	1/4W
R366	1-249-401-11	CARBON	47	5%	1/4W
R367	1-249-429-11	CARBON	10K	5%	1/4W
R368	1-249-431-11	CARBON	15K	5%	1/4W
R369	1-247-863-11	CARBON	22K	5%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-429-11	CARBON	10K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-249-429-11	CARBON	10K	5%	1/4W
R424	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-429-11	CARBON	10K	5%	1/4W
R427	1-249-429-11	CARBON	10K	5%	1/4W
R433	1-249-425-11	CARBON	4.7K	5%	1/4W
R434	1-249-425-11	CARBON	4.7K	5%	1/4W
R435	1-249-425-11	CARBON	4.7K	5%	1/4W
R744	1-249-411-11	CARBON	330	5%	1/4W
R745	1-247-831-11	CARBON	1K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN

Ref. No.	Part No.	Description			Remark
R746	1-247-831-11	CARBON	1K	5%	1/4W
R747	1-247-831-11	CARBON	1K	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W
R761	1-249-437-11	CARBON	47K	5%	1/4W
R762	1-247-843-11	CARBON	3.3K	5%	1/4W
R763	1-247-831-11	CARBON	1K	5%	1/4W
R764	1-249-429-11	CARBON	10K	5%	1/4W
R765	1-247-903-00	CARBON	1M	5%	1/4W
R766	1-249-429-11	CARBON	10K	5%	1/4W
R767	1-247-887-00	CARBON	220K	5%	1/4W
R768	1-249-430-11	CARBON	12K	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W
R770	1-249-430-11	CARBON	12K	5%	1/4W
R771	1-249-425-11	CARBON	4.7K	5%	1/4W
R772	1-249-430-11	CARBON	12K	5%	1/4W
R773	1-249-425-11	CARBON	4.7K	5%	1/4W
R774	1-249-430-11	CARBON	12K	5%	1/4W
R775	1-249-430-11	CARBON	12K	5%	1/4W
R776	1-249-437-11	CARBON	47K	5%	1/4W
R777	1-247-807-11	CARBON	100	5%	1/4W
R778	1-247-807-11	CARBON	100	5%	1/4W
R779	1-247-807-11	CARBON	100	5%	1/4W
R785	1-247-831-11	CARBON	1K	5%	1/4W
R786	1-247-807-11	CARBON	100	5%	1/4W
R790	1-249-425-11	CARBON	4.7K	5%	1/4W
R791	1-249-425-11	CARBON	4.7K	5%	1/4W
R792	1-247-831-11	CARBON	1K	5%	1/4W
R793	1-247-831-11	CARBON	1K	5%	1/4W
R794	1-247-831-11	CARBON	1K	5%	1/4W
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-425-11	CARBON	4.7K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-249-425-11	CARBON	4.7K	5%	1/4W
R806	1-247-863-11	CARBON	22K	5%	1/4W (EE)
R806	1-249-427-11	CARBON	6.8K	5%	1/4W (UK,G,IT)
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-413-11	CARBON	470	5%	1/4W
R811	1-249-421-11	CARBON	2.2K	5%	1/4W
R812	1-249-421-11	CARBON	2.2K	5%	1/4W
R813	1-249-421-11	CARBON	2.2K	5%	1/4W
R814	1-247-831-11	CARBON	1K	5%	1/4W
R815	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-247-831-11	CARBON	1K	5%	1/4W
R817	1-247-831-11	CARBON	1K	5%	1/4W
R818	1-249-439-11	CARBON	68K	5%	1/4W
R819	1-249-439-11	CARBON	68K	5%	1/4W
R820	1-249-439-11	CARBON	68K	5%	1/4W
R821	1-247-881-00	CARBON	120K	5%	1/4W
R822	1-249-421-11	CARBON	2.2K	5%	1/4W
R823	1-249-425-11	CARBON	4.7K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W
R825	1-249-425-11	CARBON	4.7K	5%	1/4W
R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R827	1-249-429-11	CARBON	10K	5%	1/4W
R828	1-249-425-11	CARBON	4.7K	5%	1/4W
R829	1-247-831-11	CARBON	1K	5%	1/4W
R830	1-249-425-11	CARBON	4.7K	5%	1/4W
R831	1-247-831-11	CARBON	1K	5%	1/4W
R832	1-249-425-11	CARBON	4.7K	5%	1/4W
R833	1-247-831-11	CARBON	1K	5%	1/4W
R834	1-247-831-11	CARBON	1K	5%	1/4W
R835	1-247-831-11	CARBON	1K	5%	1/4W
R836	1-247-831-11	CARBON	1K	5%	1/4W
R837	1-247-831-11	CARBON	1K	5%	1/4W
R838	1-247-831-11	CARBON	1K	5%	1/4W
R839	1-247-831-11	CARBON	1K	5%	1/4W
R840	1-247-831-11	CARBON	1K	5%	1/4W
R841	1-249-425-11	CARBON	4.7K	5%	1/4W
R842	1-249-425-11	CARBON	4.7K	5%	1/4W
R843	1-249-425-11	CARBON	4.7K	5%	1/4W
R844	1-249-425-11	CARBON	4.7K	5%	1/4W
R845	1-247-831-11	CARBON	1K	5%	1/4W
R846	1-247-831-11	CARBON	1K	5%	1/4W
R847	1-249-425-11	CARBON	4.7K	5%	1/4W
R848	1-249-441-11	CARBON	100K	5%	1/4W
R849	1-249-441-11	CARBON	100K	5%	1/4W
R850	1-249-425-11	CARBON	4.7K	5%	1/4W
R851	1-249-425-11	CARBON	4.7K	5%	1/4W
R852	1-247-831-11	CARBON	1K	5%	1/4W
R853	1-247-831-11	CARBON	1K	5%	1/4W
R854	1-249-425-11	CARBON	4.7K	5%	1/4W
R855	1-249-425-11	CARBON	4.7K	5%	1/4W
R856	1-249-425-11	CARBON	4.7K	5%	1/4W
R857	1-249-437-11	CARBON	47K	5%	1/4W
R858	1-249-441-11	CARBON	100K	5%	1/4W
R859	1-249-429-11	CARBON	10K	5%	1/4W
R860	1-249-441-11	CARBON	100K	5%	1/4W
R862	1-249-425-11	CARBON	4.7K	5%	1/4W
R863	1-249-421-11	CARBON	2.2K	5%	1/4W
R864	1-249-441-11	CARBON	100K	5%	1/4W
R865	1-249-435-11	CARBON	33K	5%	1/4W
R866	1-247-895-11	CARBON	470K	5%	1/4W
R868	1-249-435-11	CARBON	33K	5%	1/4W
R869	1-247-895-11	CARBON	470K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-230-495-11	RES, ADJ, CARBON 2.2K			
		< TRANSFORMER >			
T301	1-433-346-11	TRANSFORMER, BIAS OSCILLATOR			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X701	1-579-345-11	VIBRATOR, CERAMIC (16.9344MHz)			
X801	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
X802	1-760-105-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-667-502-14	POWER BOARD			
		**********			
	1-533-233-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-161-021-11	CERAMIC	0.047uF	10%	25V
C902	1-161-021-11	CERAMIC	0.047uF	10%	25V
C903	1-161-021-11	CERAMIC	0.047uF	10%	25V
C904	1-161-021-11	CERAMIC	0.047uF	10%	25V
C905	1-126-944-11	ELECT	3300uF	20%	25V
C906	1-161-021-11	CERAMIC	0.047uF	10%	25V
C907	1-161-059-00	CERAMIC	0.047uF	10%	50V
		< CONNECTOR >			
* CNP901	1-564-507-11	PLUG, CONNECTOR 4P			
* CNP902	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D901	8-719-046-47	DIODE 1N5401TM			
D902	8-719-046-47	DIODE 1N5401TM			
D903	8-719-046-47	DIODE 1N5401TM			
D904	8-719-046-47	DIODE 1N5401TM			
D906	8-719-991-33	DIODE 1SS133T-77			
D907	8-719-991-33	DIODE 1SS133T-77			
D908	8-719-981-95	DIODE MTZJ-2.7B			
D910	8-719-991-33	DIODE 1SS133T-77			
		< FUSE >			
⚠F901	1-532-464-31	FUSE, TIME-LAG (T2.5AL/250V)			
		< AC INLET >			
⚠J901	1-526-838-11	INLET, AC 2P (~ AC IN)			
		< LINE FILTER >			
⚠LF901	1-424-150-11	TRANSFORMER, LINE FILTER			
		< TRANSFORMER >			
⚠T901	1-435-078-11	TRANSFORMER, POWER			
**********					

Ref. No.	Part No.	Description			Remark
*	1-668-024-14	RECORD/PLAYBACK SWITCH BOARD			
		**********			
		< CAPACITOR >			
C378	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNP301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< RESISTOR >			
R102	1-247-831-11	CARBON	1K	5%	1/4W
R202	1-247-831-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S301	1-692-167-11	SWITCH, SLIDE (REC/PB)			
**********					
*	A-3322-240-A	TUNER BOARD, COMPLETE (UK,G,IT)			
*	A-3322-248-A	TUNER BOARD, COMPLETE (EE)			
		**********			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-162-306-11	CERAMIC	0.01uF	20%	16V
C3	1-102-516-11	CERAMIC	27PF	5%	50V (UK,G,IT)
C3	1-162-195-31	CERAMIC	4.7PF	10%	50V (EE)
C4	1-162-203-31	CERAMIC	15PF	5%	50V
C5	1-161-494-00	CERAMIC	0.022uF		25V
C6	1-161-494-00	CERAMIC	0.022uF		25V
C7	1-161-020-11	CERAMIC	0.039uF	10%	16V
C8	1-162-195-31	CERAMIC	4.7PF	10%	50V (UK,G,IT)
C9	1-102-973-00	CERAMIC	100PF	5%	50V
C10	1-102-823-11	CERAMIC	430PF	5%	50V
C11	1-162-199-31	CERAMIC	10PF	5%	50V
C12	1-107-734-11	FILM	360PF	5%	100V
C14	1-164-159-21	CERAMIC	0.1uF		50V
C15	1-162-306-11	CERAMIC	0.01uF	20%	16V
C16	1-126-963-11	ELECT	4.7uF	20%	50V
C17	1-162-288-31	CERAMIC	330PF	10%	50V
C18	1-162-306-11	CERAMIC	0.01uF	20%	16V
C19	1-124-907-11	ELECT	10uF	20%	50V
C20	1-162-849-11	CERAMIC	0.068uF	10%	16V
C21	1-162-850-11	CERAMIC	0.082uF	10%	16V
C22	1-162-850-11	CERAMIC	0.082uF	10%	16V
C23	1-161-053-00	CERAMIC	0.015uF	10%	50V
C24	1-161-053-00	CERAMIC	0.015uF	10%	50V
C25	1-162-306-11	CERAMIC	0.01uF	20%	16V
C26	1-162-306-11	CERAMIC	0.01uF	20%	16V
C27	1-104-665-11	ELECT	100uF	20%	10V
C28	1-102-518-11	CERAMIC	33PF	5%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TUNER

Ref. No.	Part No.	Description			Remark
C29	1-162-203-31	CERAMIC	15PF	5%	50V
C30	1-162-306-11	CERAMIC	0.01uF	20%	16V
C31	1-162-306-11	CERAMIC	0.01uF	20%	16V
C32	1-162-306-11	CERAMIC	0.01uF	20%	16V
C33	1-162-306-11	CERAMIC	0.01uF	20%	16V
C34	1-162-294-31	CERAMIC	0.001uF	10%	50V
C35	1-162-294-31	CERAMIC	0.001uF	10%	50V
C36	1-162-294-31	CERAMIC	0.001uF	10%	50V
C37	1-124-907-11	ELECT	10uF	20%	50V
C38	1-162-306-11	CERAMIC	0.01uF	20%	16V
C39	1-124-907-11	ELECT	10uF	20%	50V
C40	1-162-306-11	CERAMIC	0.01uF	20%	16V
C41	1-136-177-00	MYLAR	1uF	5%	50V
C42	1-130-483-00	MYLAR	0.01uF	5%	50V
C43	1-162-282-31	CERAMIC	100PF	10%	50V (UK,G,IT)
C43	1-162-290-31	CERAMIC	470PF	10%	50V (EE)
C44	1-124-907-11	ELECT	10uF	20%	50V
C45	1-124-907-11	ELECT	10uF	20%	50V
C46	1-124-907-11	ELECT	10uF	20%	50V
C47	1-162-282-31	CERAMIC	100PF	10%	50V
C48	1-162-282-31	CERAMIC	100PF	10%	50V
C49	1-162-294-31	CERAMIC	0.001uF	10%	50V
C50	1-162-282-31	CERAMIC	100PF	10%	50V
C51	1-162-282-31	CERAMIC	100PF	10%	50V
C52	1-162-306-11	CERAMIC	0.01uF	20%	16V
C53	1-162-306-11	CERAMIC	0.01uF	20%	16V
C54	1-162-294-31	CERAMIC	0.001uF	10%	50V
C55	1-162-306-11	CERAMIC	0.01uF	20%	16V
C56	1-162-306-11	CERAMIC	0.01uF	20%	16V
C57	1-162-195-31	CERAMIC	4.7PF	10%	50V
C58	1-162-282-31	CERAMIC	100PF	10%	50V
C59	1-161-494-00	CERAMIC	0.022uF		25V
C60	1-162-282-31	CERAMIC	100PF	10%	50V
C61	1-162-306-11	CERAMIC	0.01uF	20%	16V
C62	1-162-294-31	CERAMIC	0.001uF	10%	50V
C63	1-162-282-31	CERAMIC	100PF	10%	50V
C64	1-162-294-31	CERAMIC	0.001uF	10%	50V
C65	1-162-282-31	CERAMIC	100PF	10%	50V
C66	1-162-294-31	CERAMIC	0.001uF	10%	50V
C67	1-162-195-31	CERAMIC	4.7PF	10%	50V (EE)
C67	1-162-197-31	CERAMIC	6.8PF	10%	50V (UK,G,IT)
C68	1-162-306-11	CERAMIC	0.01uF	20%	16V
C69	1-162-215-31	CERAMIC	47PF	5%	50V
C71	1-162-282-31	CERAMIC	100PF	10%	50V
C72	1-162-282-31	CERAMIC	100PF	10%	50V
C73	1-162-294-31	CERAMIC	0.001uF	10%	50V (EE)
C74	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description	Remark
		< FILTER >	
CF1	1-760-468-11	FILTER, CERAMIC	
CF2	1-760-468-11	FILTER, CERAMIC	
CF3	1-760-468-11	FILTER, CERAMIC	
CF4	1-767-096-11	VIBRATOR, CERAMIC	
		< ENCAPSULATED COMPONENT >	
CFT1	1-233-885-11	ENCAPSULATED COMPONENT	
		< CONNECTOR >	
CN1	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P	
* CN2	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< TRIMMER >	
CT1	1-141-227-00	CAP, TRIMMER 20PF (UK,G,IT)	
CT2	1-141-411-11	CAP, ADJ 20PF	
CT3	1-141-459-11	CAP, TRIMMER (SEAL TYPE) 45PF	
CT4	1-141-410-11	CAP, ADJ 10PF	
CT5	1-141-459-11	CAP, TRIMMER (SEAL TYPE) 45PF	
		< DIODE >	
D1	8-719-991-33	DIODE 1SS133T-77	
D2	8-719-991-33	DIODE 1SS133T-77	
D3	8-719-050-72	DIODE KV1370NT	
D4	8-719-050-72	DIODE KV1370NT	
D5	8-719-050-69	DIODE KV1520N	
		< FUSE HOLDER >	
FH1	1-533-233-31	HOLDER, FUSE	
		< BPF >	
FL1	1-236-022-11	FILTER, BAND PASS (UK,G,IT)	
FL1	1-239-813-21	FILTER, BAND PASS (EE)	
		< IC >	
IC1	8-759-386-02	IC TA2008AN	
IC2	8-759-290-61	IC BU2615S	
		< COIL >	
L1	1-406-995-41	COIL, FM OSC (EE)	
L1	1-409-905-31	COIL, FM RF (UK,G,IT)	
L2	1-406-994-41	COIL, FM RF (EE)	
L2	1-409-904-31	COIL, FM OSC (UK,G,IT)	
L3	1-501-924-11	ANTENNA, FERRITE-ROD (MW/LW)	
L4	1-411-199-31	COIL, MW/LW OSC	
L5	1-410-517-11	INDUCTOR 47uH	
L6	1-410-336-11	INDUCTOR 220uH	
L8	1-410-324-11	INDUCTOR 4.7uH	
		< TRANSISTOR >	
Q1	8-729-119-32	FET 2SK193	
Q2	8-729-922-66	TRANSISTOR 2SC2410SN	

Ref. No.	Part No.	Description			Remark
Q3	8-729-922-66	TRANSISTOR 2SC2410SN			
Q4	8-729-905-50	TRANSISTOR DTC343TS			
Q5	8-729-178-62	TRANSISTOR 2SC2786-L			
Q6	8-729-922-66	TRANSISTOR 2SC2410SN			
Q9	8-729-036-77	TRANSISTOR KRC107M			
Q10	8-729-036-77	TRANSISTOR KRC107M			
Q11	8-729-036-77	TRANSISTOR KRC107M			
Q12	8-729-036-77	TRANSISTOR KRC107M			
Q13	8-729-012-83	FET 2SK679A			
Q14	8-729-106-07	FET 2SK514-H			
Q15	8-729-036-77	TRANSISTOR KRC107M			
Q16	8-729-036-77	TRANSISTOR KRC107M			
Q17	8-729-037-34	TRANSISTOR KRA107M			
Q18	8-729-037-34	TRANSISTOR KRA107M			
Q19	8-729-036-58	TRANSISTOR KRC102M-AT			
Q21	8-729-037-29	TRANSISTOR KRA102M			
Q22	8-729-037-29	TRANSISTOR KRA102M			
Q23	8-729-922-66	TRANSISTOR 2SC2410SN			
		< RESISTOR >			
R1	1-247-887-00	CARBON	220K	5%	1/4W
R2	1-249-441-11	CARBON	100K	5%	1/4W
R3	1-249-431-11	CARBON	15K	5%	1/4W
R4	1-249-413-11	CARBON	470	5%	1/4W
R5	1-247-831-11	CARBON	1K	5%	1/4W
R6	1-249-425-11	CARBON	4.7K	5%	1/4W
R7	1-249-425-11	CARBON	4.7K	5%	1/4W
R8	1-249-407-11	CARBON	150	5%	1/4W (EE)
R8	1-249-411-11	CARBON	330	5%	1/4W (UK,G,IT)
R9	1-249-425-11	CARBON	4.7K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R11	1-247-887-00	CARBON	220K	5%	1/4W
R12	1-249-425-11	CARBON	4.7K	5%	1/4W
R13	1-247-815-11	CARBON	220	5%	1/4W
R14	1-249-425-11	CARBON	4.7K	5%	1/4W
R15	1-247-887-00	CARBON	220K	5%	1/4W
R16	1-249-426-11	CARBON	5.6K	5%	1/4W (UK,G,IT)
R16	1-249-429-11	CARBON	10K	5%	1/4W (EE)
R19	1-249-421-11	CARBON	2.2K	5%	1/4W
R20	1-247-863-11	CARBON	22K	5%	1/4W
R21	1-249-404-00	CARBON	82	5%	1/4W
R22	1-249-429-11	CARBON	10K	5%	1/4W
R23	1-249-429-11	CARBON	10K	5%	1/4W
R24	1-249-429-11	CARBON	10K	5%	1/4W
R25	1-249-429-11	CARBON	10K	5%	1/4W
R26	1-247-831-11	CARBON	1K	5%	1/4W
R27	1-247-831-11	CARBON	1K	5%	1/4W
R28	1-249-429-11	CARBON	10K	5%	1/4W
R29	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R33	1-247-815-11	CARBON	220	5%	1/4W (UK,G,IT)
R33	1-249-410-11	CARBON	270	5%	1/4W (EE)
R34	1-249-415-11	CARBON	680	5%	1/4W
R35	1-249-412-11	CARBON	390	5%	1/4W
R36	1-249-437-11	CARBON	47K	5%	1/4W
R37	1-247-831-11	CARBON	1K	5%	1/4W
R38	1-249-427-11	CARBON	6.8K	5%	1/4W
R39	1-247-831-11	CARBON	1K	5%	1/4W
R40	1-249-421-11	CARBON	2.2K	5%	1/4W
R41	1-247-831-11	CARBON	1K	5%	1/4W
R42	1-249-437-11	CARBON	47K	5%	1/4W
R43	1-249-437-11	CARBON	47K	5%	1/4W
R44	1-249-425-11	CARBON	4.7K	5%	1/4W
R45	1-249-429-11	CARBON	10K	5%	1/4W
R46	1-249-429-11	CARBON	10K	5%	1/4W
R47	1-247-863-11	CARBON	22K	5%	1/4W
R48	1-247-863-11	CARBON	22K	5%	1/4W
R49	1-249-421-11	CARBON	2.2K	5%	1/4W
R50	1-247-831-11	CARBON	1K	5%	1/4W
R51	1-249-441-11	CARBON	100K	5%	1/4W
R52	1-249-441-11	CARBON	100K	5%	1/4W
R53	1-249-441-11	CARBON	100K	5%	1/4W
R54	1-249-413-11	CARBON	470	5%	1/4W
R55	1-249-437-11	CARBON	47K	5%	1/4W
R56	1-249-411-11	CARBON	330	5%	1/4W
R57	1-247-791-11	CARBON	22	5%	1/4W
R58	1-247-883-00	CARBON	150K	5%	1/4W
R59	1-249-421-11	CARBON	2.2K	5%	1/4W
R60	1-249-407-11	CARBON	150	5%	1/4W
		< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)			

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*	1-668-025-11	TUNER STOPPER BOARD

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Personal Audio Division Company

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